

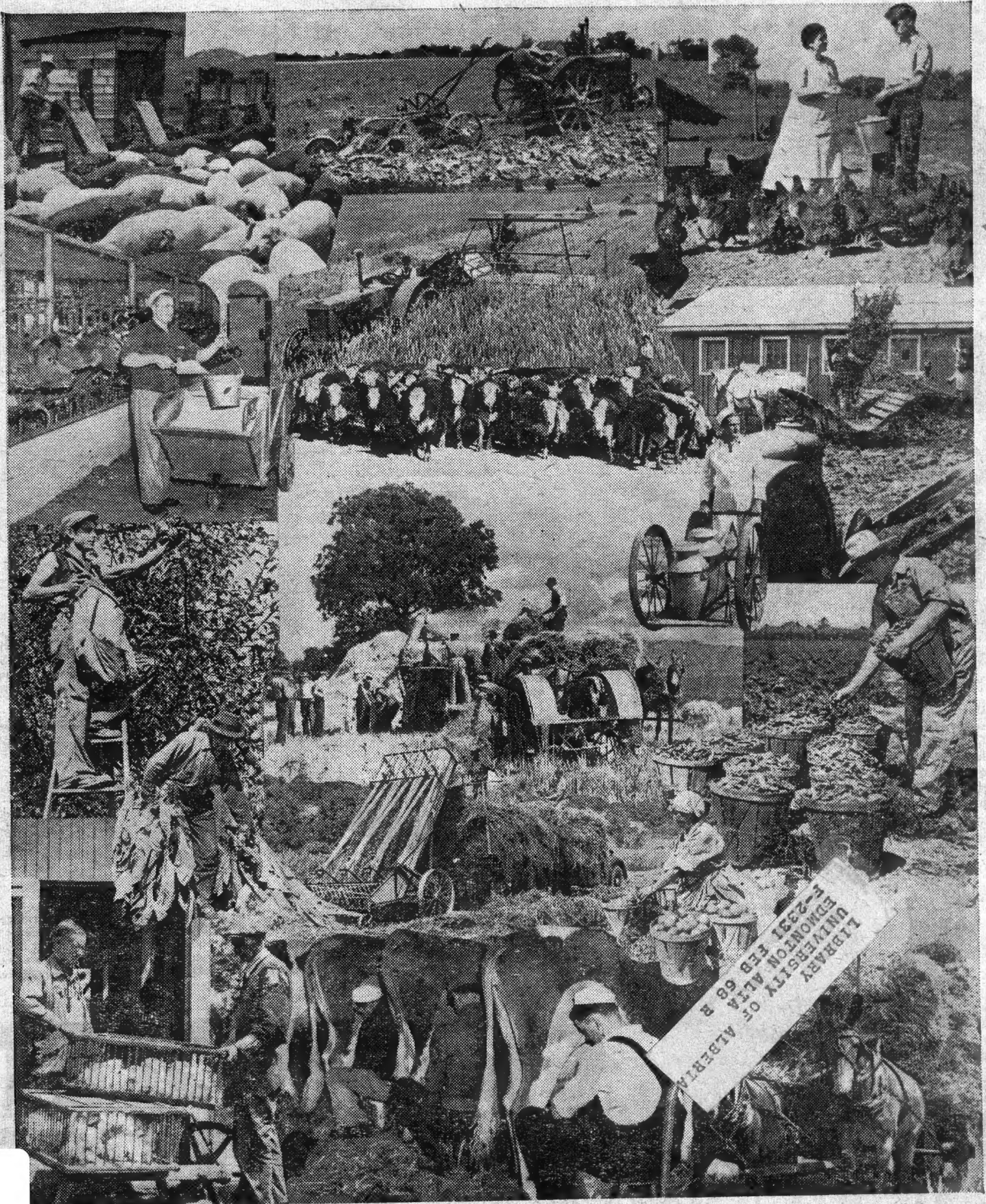
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Farm and Ranch REVIEW

AUGUST, 1953

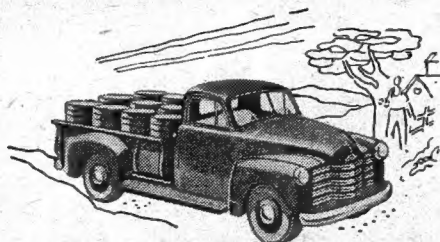
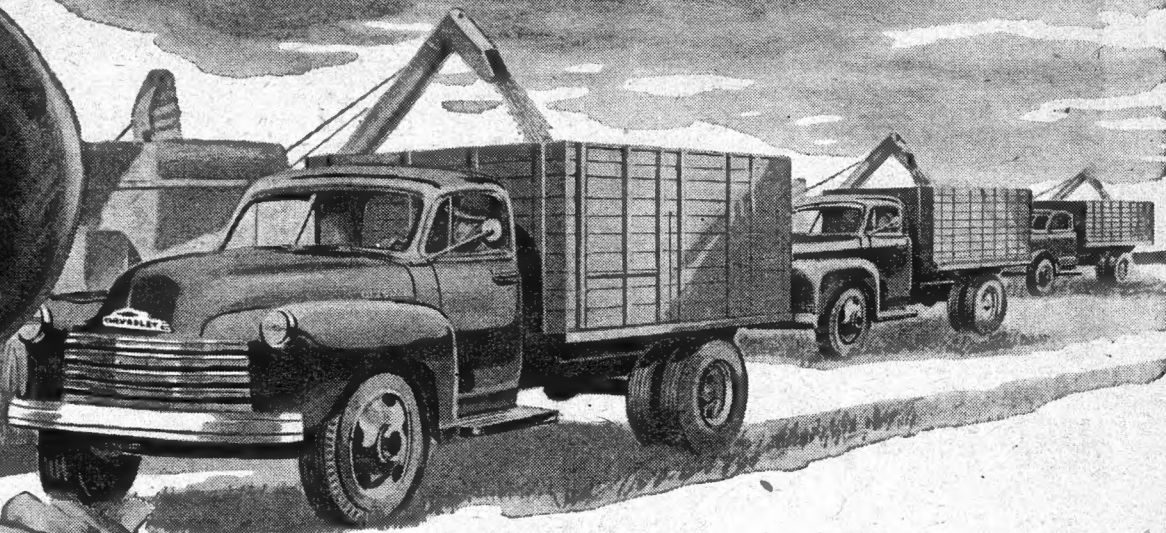
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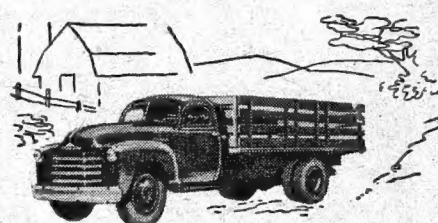
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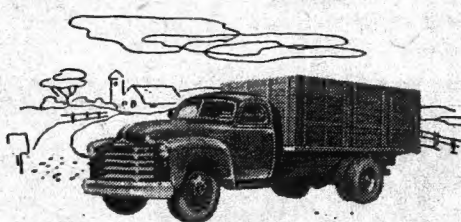
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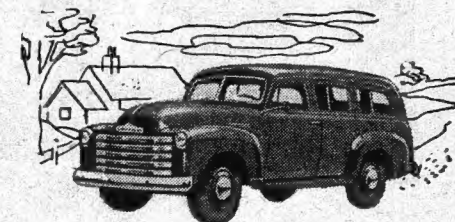
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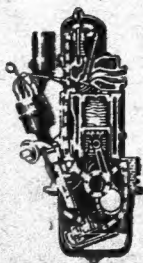
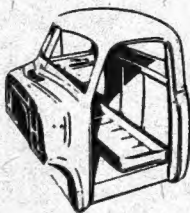


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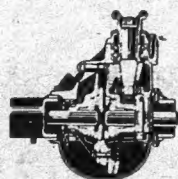
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"In the opinion of this house consideration should be given by the government to the advisability of introducing during the present session legislation to provide floor prices for agricultural products at such levels as to ensure producers a fair price-cost relationship."

This motion was voted down by the Liberal majority.

WE CAN...
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VOTE X

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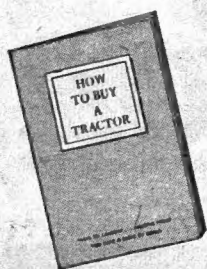
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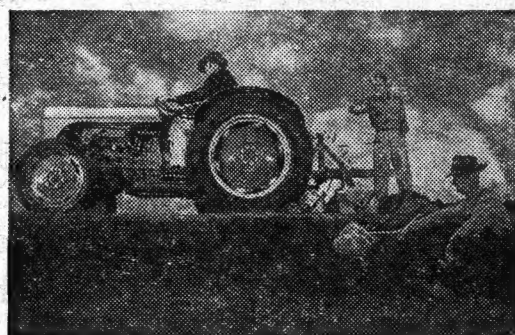
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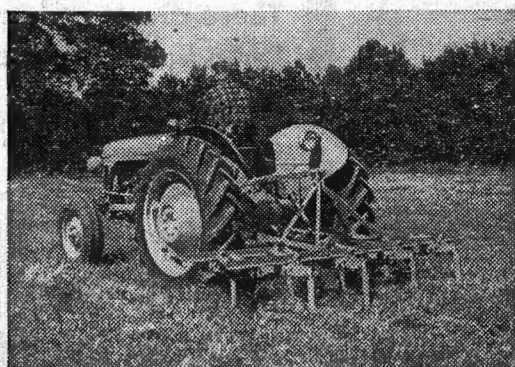
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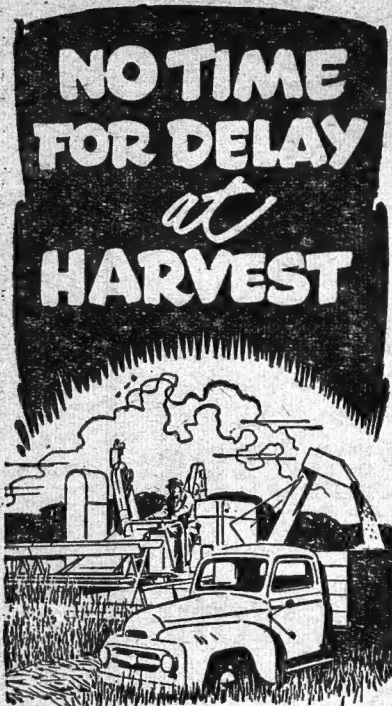


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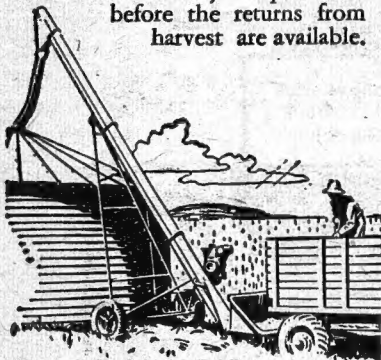
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Harvest is the reward for the year's work in the field. However, an efficient job of harvesting is necessary if you are to reap the entire reward. Much can be lost through delays, breakdowns or poor operation of harvest equipment.

For this reason, most farmers pay special attention to their harvesting equipment. Modern machines have greatly reduced the labour requirements of harvest. However, the machines wear out and the purchase of new equipment means a major expenditure before the returns from harvest are available.



Should you need new harvest equipment, there is no need to attempt the harvest with worn-out machines. Imperial Bank Farm Improvement Loans are available to help you purchase the machines best suited to your needs.

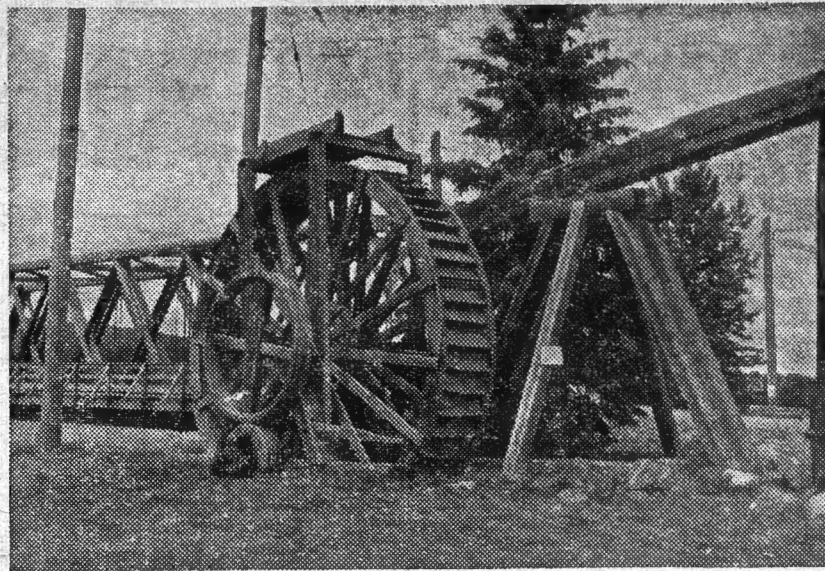
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43-3

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Old Water Wheel



Once used by the Cariboo gold miners 100 years ago, this water wheel is preserved in a park at Quesnel, B.C. Alan Schutz, 62 Royal Avenue, North Kamloops, sent us the picture.

The Farm and Ranch Review

Graphic Arts Bldg., Calgary, Alberta

Vol. XLIX

Founded in 1905 by Charles W. Peterson

No. 8

James H. Gray, Editor

P. Peterson, Advertising Manager

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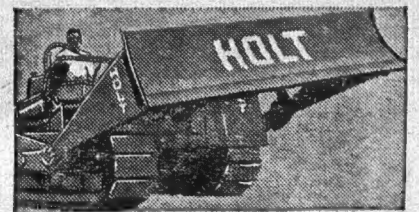
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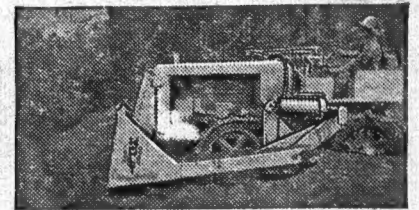
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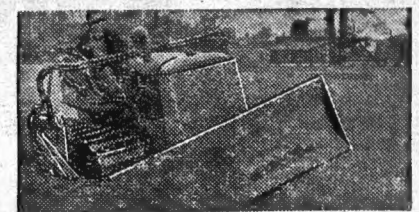
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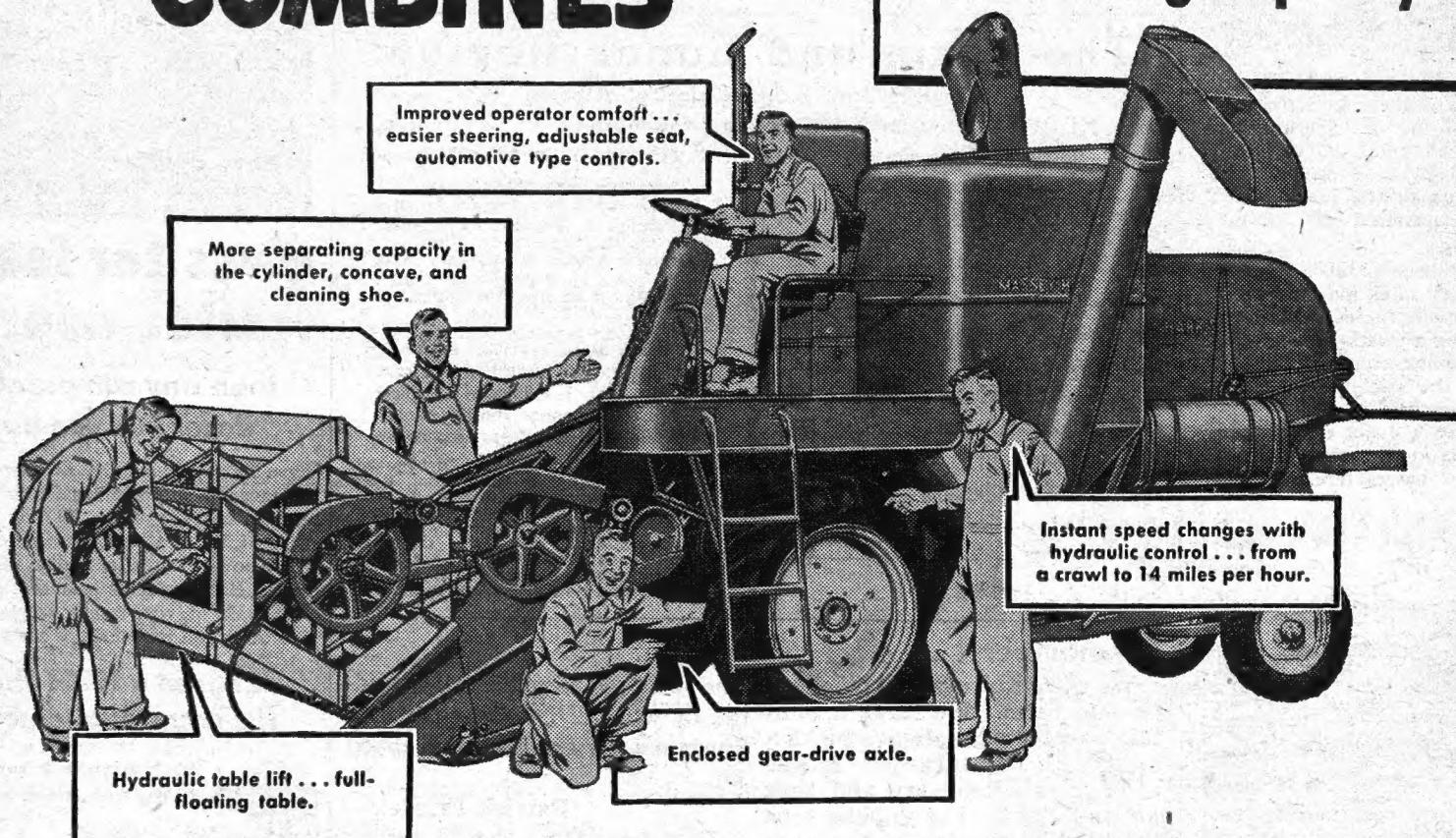
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The Farm and Ranch Editorial Page...

At a time like this don't vote for confusion

BY the time this issue of the Farm and Ranch reaches some of our readers, the Dominion election will be in its closing hours. By then we imagine that most of us will long since have made up our minds how we will cast our ballots. It follows, hence, that what is being written here now may be outdated by the time it gets to our readers. Yet there are a number of points which still should be made in connection with the campaign.

The first point is this: All the parties contesting it can lose this election — but only the Liberals have a chance to win. No other party entered the stretch drive of the campaign with any hope of emerging with a working majority in Parliament. The Conservatives, clearly, have their sights set not on this but on the next election. They hope to gain sufficient seats so that, at the next jump, it will be possible for them to score moderate, and hence possible gains and defeat the Liberals.

It is this possibility of a stalemate which has given rise to a good deal of wishful thinking, on the part of the splinter groups, of "holding the balance of power". What this means, to the ordinary electors, is simply this: They hope that the Liberals and Conservatives will both go back with insufficient support to control the house. Then one of them can hold a gun to the head of Mr. St. Laurent or Mr. Drew and promise support in return for certain favors. There's a word that describes that. The word is blackmail.

What is involved is simply this. The people of Canada will have overwhelmingly

repudiated the policies of the splinter group. It will be reduced to a level of complete impotency. But by a fortuitous set of circumstances, it will be placed in the position of being able to force the adoption of part of a programme the electors have repudiated.

This can be brought about in two ways — by a special deal between two parties, or by a complete coalition. Our own belief is that special deals would destroy both the parties that made them. As for coalitions, the recent history of this country has surely demonstrated that they are destructive to public confidence in government. Participation in the Bracken coalition in Manitoba wiped out the Social Crediters, it substantially weakened the C.C.F. and set the Tories back a full decade. The success of the so-called Social Credit party in B.C. was but a reflection of widespread public distaste with the preceding coalition.

A coalition, federally, between the Tories and the Social Credit party would, concededly, make some sense. They have much in common and their differences are not important. Better, however, would be a complete union of the two. This would give the Tories at least a foothold in Alberta, and it would give Alberta a stronger voice inside the Tory caucus. This sort of union, however, is probably impossible.

As for the Liberals, the Prime Minister is on record that he wants no part of any coalition, that if his party has lost the confidence of the Canadian people he is prepared to move over to the opposition

benches. We regard that as exceedingly unlikely. We expect that the Liberal party will be returned to power with a comfortable majority because it deserves to be re-elected. But in the event of a narrow defeat of the Liberals, the Conservatives would have no majority either. So we would be in for a series of elections until one or the other party emerged with a solid majority.

Can Canada, in a period like this, afford to go through a period of uncertainty and indecision in Parliament? We think not. Vital questions face our new Government. Our trade problems are real and growing. In the last decade, Canada has become an important voice for good in the world. Our contribution toward winning the peace has been important in its material aspects. It has been even greater in the realm of leadership which this country has provided.

Under Liberal leadership, we have not only achieved the highest level of material prosperity this country has ever seen; we have matured as a nation. Surely, if ever a political party was entitled to seek re-election on its record, the administration headed by Prime Minister Louis St. Laurent is that party.

To maintain our steady progress, this country needs stable government. That will require that the successful party have a working majority, a comfortable working majority in the House of Commons. The Conservatives have no hope of winning enough seats to command a majority. The only hopes the C.C.F. and Social Crediters have is to go back with the corporal's guard they had in the last house.

Thus the electors have a clear choice before them. They can vote Liberal in the sure knowledge that they will have a stable government for five years and enjoy the same high level of administration we have had in the past. To vote either C.C.F. or Social Credit, in this election, will be an act of irresponsible citizenship. Electors who vote that way will be voting for confusion, and the weakening of the Canadian nation, at a time when it needs stability and strength of leadership more than ever before.

Mr. Drew almost makes it unanimous

THE manner in which our general election campaign has cleared the air on the natural gas issue is one of immense satisfaction to the Farm and Ranch Review.

Readers who have followed the discussion of this question on these pages know that it was the Farm and Ranch which first raised the issue and first put forward the policy which has now been adopted by both the national Liberal and Conservative parties. We took the position that our deposits of natural gas were in the same category as our hydro electric sites as sources of potential power. We held that these resources should be adequately protected so that they would be available for Canadian use.

For coming out for an all-Canadian policy for natural gas development, we were bitterly attacked by spokesmen for the American oil and gas interests. What they wanted was to get rid of these resources, at the greatest possible haste, to nearby markets in the United States. One of the most prominent advocates of the fire-sale policy managed to get himself elected to Parliament as the Conservative member for

Calgary West.

In season and out, he preached the gospel of exporting gas to the States. But his preaching drew no converts where converts were important. His leader did a curious thing. Mr. Drew went into the home riding of his supporter and there, on a public platform, repudiated the entire "sell it to the Americans" programme. It is not often a political leader so completely disowns one of his own followers.

Thus we know now that regardless of which party forms the next Government, the surplus natural gas of Alberta will ultimately find its market in eastern Canada. And it will move there over a pipeline that will follow an all-Canadian route.

In our advocacy of such a policy we were not motivated by any special concern for eastern Canada. But it seemed to us that on this gas question this country was faced with a historic decision. It was a decision on which we went back to the turn of a century for an exact parallel.

That was in the days of the infancy of hydro electric development. Ontario and Quebec in those days were bountifully sup-

plied with power sites capable of generating millions of horse-power. There arose an agitation to permit American capital to develop these sites and export the power to the United States. Thanks to the vision and courage of Sir Clifford Sifton, who had a true appreciation of the issues involved, Canada adopted the policy of forbidding the export of power to the United States.

The result of that policy is everywhere apparent in eastern Canada today. It is apparent in the rapid growth of population, in the creation of a huge industrial wedge that stretches from Montreal to Windsor. Now we are on the threshold of another great power age — the use of gas power for industry. Gas created a great industrial empire in Texas. It can do so in Alberta. But it could never have done so if we had permitted our gas to be exported to fuel the industrial expansion of the American states.

So we are pleased, indeed, that a spark of Sifton idealism has ignited a fire of enthusiasm in Mr. Drew as it did earlier in Mr. St. Laurent. We're only sorry that Mr. Manning and Mr. Low, the only dissenters left, have acquired complete immunity to the impact of both idealism and common sense.

Farm and Ranch Editorials

This parity price agitation can ruin the grain growers

IT seems to us that the current clamor for the institution of a parity price system for agricultural products comes at a particularly inappropriate time. The operation of just such a system in the United States has produced the gravest agricultural crisis there in 20 years. If such a system produces such results in the United States, where the great bulk of the food produced is consumed by the domestic market, how can we hope to fare any better in Canada? Here the bulk of our production must be sold in the export markets of the world.

We can understand how opposition political parties, in the hope of gathering votes, will promise farmers what they think the farmers want. But when farm organizations themselves start beating the drum, it is time to start being concerned.

The fact is, of course, that our farmers in the West enjoy a good deal of protection through the operation of the Wheat Board. The dairy producers enjoy fair kind of protection through the operation of the provin-

cial milk boards. The point to remember in this country is this: The bulk of our income comes from grain. If we can be assured of reasonable returns from our grain production, we will enjoy a high level of prosperity. We will do that regardless of what happens to the prices of other agricultural products. So it is important, at all times, for the farmers of the West to keep their eyes focussed on grain prices. They will not be able to do that if they become the goats for producers of specialized crops in other regions.

These particular producers are having their troubles. But for the life of us, we cannot see how these troubles can be solved by anything as illogical as the two-price system for all agricultural produce as advocated by the Farmers' Unions.

The affect of a two-price system, regardless of the product involved, is to raise prices to a height at which marginal producers are encouraged to get into the business. This is particularly true of vegetables. High vegetable prices encourages city people to grow their own. With the expenditure of only a few cents for seed, untold thousands of urbanites can get into the business.

Higher prices likewise encourage those who are in the business to increase production. Ultimately, as surpluses pile up, some system of crop curtailment becomes impera-

tive. Yet even here there is no easy way out. In the United States, efforts were made to reduce potato acreages. So the potato growers simply planted their rows closer together, piled on the fertilizer, and grew more spuds than ever. What is true of vegetables is likewise true of seeds, of poultry and of many other things.

The parity prices system is not a floor price system. The latter is predicated on the idea that floor prices will prevent periodic disasters to producers. But the basic idea of a floor price is to provide protection only against disaster. A sound floor policy does not encourage production because floor prices are not set at a level at which anything more than a minimum profit is possible.

There are two serious dangers to this parity price agitation for prairie grain growers. The first is a threat to our export trade. A two-price system establishes a high domestic price and a low export price. Are our memories so short that we have forgotten the international uproar in the '30's over "dumping"? When we offer products abroad at prices below our domestic price, we are dumping and we are inviting retaliatory action. Such action might easily destroy many of our hard-won markets for grain.

The second danger is that the ultimate failure of a two-price system, in a country where the export market is all dominant, will destroy the Wheat Board and rob us of the vital protection it provides for grain producers.

On these counts alone, the leaders of the Farmers' Union are rendering a grave disservice to the grain growers of the West in their rush to get on the parity price bandwagon.

Time for a change!

(From the Lethbridge Herald)

ALL the old slogans are being trotted out by the Opposition parties in the Federal election campaign.

Cut taxes . . . the Government is getting old and fat and dictatorial . . . waste and extravagance . . . it's time for a change — these are being trotted out up and down the land and given all sorts of interpretations.

"Tempus," writing in Financial Times, says:

As isolated slogan, time for a change is a stupid one. It is like saying: "We are tired of good times, we are tired of prosperity, let's have something else."

And if a change were made, then what? The only party which could form a new government would be the Conservatives. The splinters haven't a chance. Public opinion all across Canada is that the electors are not reacting favorably to the "time for a change" and tax cut slogans. They would rather have a continuance of the prosperity they know behind a team which is leading the league than to put any faith in anything the minors have yet offered. And right here in Alberta a good many electors, the young people especially who are just getting their start in life, are wondering why Alberta should go on and on sending oppositionists to the House of Commons when Tory Ontario and Nationalist Quebec reverse their provincial voting picture by sending large majorities of Liberals to Ottawa in Federal elections to support the Government of Prime Minister St. Laurent.

If it's a time for a change in anything, it's time Alberta voters quit looking at Ottawa through a blind eye.

Abandonment of principle has destroyed the Tories

LET'S put it bluntly: The so-called programme which the Conservative party has put before the Canadian people is as fraudulent a platform as this country has seen. It was designed to fool the electors; in the forlorn hope that enough of them could be swindled to enable the Tories to get into power. If the Conservative party wants to know why it has spent almost 20 years in the political wilderness it is because it has tried, at election after election, to mislead the public with platforms like this. On this occasion it has outstripped all previous efforts.

The hypocrisy of the Tory platform can be quickly demonstrated. It proposes to reduce Federal expenditures and cut taxes by half a billion dollars a year, and promises higher expenditures on everything in which any special group is interested. It is the sort of document that can only make serious students of Canadian politics, which takes in most of our citizens, blush for shame for what was once a great national party.

In all this, the losers are the Canadian people. For our democratic system to function efficiently, we need an alternative to the party in power. That applies right through the piece, to our legislatures as well as to Parliament. The essence of democracy is that the people should be able to make up their minds as to the merits of different legislative programmes. If they do not like what the party in power is doing they can change the programme by electing a different party. But to do this it is necessary

for one party to stand for a different set of principles than the party in power.

When, however, we have a condition where the alternative party is content to ape the party in power, democracy becomes a farce. There are, in this country, large numbers of people who do not approve of what the Liberal Government has been doing. They should have a party for which they can vote. It should be a party which stands on principle and continues to stand on principle regardless of short-term political results.

There was once a time when the principles of the Conservative party were well known. In those days it gave the electors a real alternative to the Liberal party. Through the years it enjoyed a large measure of success. But once it started flirting with expediency, once it tried being more Liberal than the Liberals, more benevolent than the socialists, it disgusted its followers and lost the respect of the Canadian people.

The people who once supported it started chasing splinter groups. Not because of any great conversion to the principles of the splinters but because they wanted an alternative to the Liberals. Today in Canada there are many people who do not support the Liberal party in many of its welfare state enactments. They are a conservative group of people; and there should be a party for which conservative people can vote. But one glance at the platform of the Tories for the 1953 election will fill such people with disgust.

Nationalism is the spark in satellite uprisings

By BEN MALKIN

DESPITE the trend towards internationalism that has been in evidence in the past two generations, the recent strikes, riots and demonstrations in Russian-controlled countries of Europe indicate that nationalism is still a force to be reckoned with. After the great East Berlin riots in June, people began wondering how it was possible that demonstrations of that kind could be held in a police state. Of course, the Communist authorities in East Germany had, a few days before, relaxed their authority slightly, and this had provided an opportunity for the rioting. But it didn't seem to be the whole explanation.

Hunger and overwork also played their part. But the great factor seemed to be nationalism. The German who struck and rioted weren't pro-Western. They weren't even, necessarily, anti-Communist. In fact, one of their leaders in East Berlin, a stone mason, was described as a Communist. But they were very much pro-German, and since they were in Russian-controlled territory, this made them anti-Russian. They didn't want foreign domination, and this would apply to either side of the iron curtain.

Nationalism as a force which becomes anti-French in Indo-China becomes anti-Russian in Germany — and, no doubt, in Hungary, Czechoslovakia, and the Ukraine, where there is also trouble. As time goes on, this may become Russia's greatest headache, worse, even, than such problems as adequate food production and distribution, and the production of consumer goods.

What to Do ?

The question for the West is how to exploit this difficulty. The fact that different governments—the British, the American, the French — have different ideas concerning how this should be done indicates that it isn't as simple as it sounds. The American idea is to let nature take its course, to try to win friends in Soviet-occupied countries, as with the offer of \$15,000,000 worth of emergency food to East Germany, and to hope for growing Russian weakness. The British idea is to find out, now, how far Russia is prepared to go toward a settlement with the West, and in the meantime not provoke the Russians by appealing to the satellites. Canada's approach seems to be much the same.

Perhaps the recent history of Yugoslavia gives a clue which might lead toward a practical policy toward Germany. When Marshal Tito broke away from the Russians, he didn't become pro-Western, and he certainly didn't become anti-Communist. He remained pro-Communist

and pro-Yugoslav. But this didn't mean that he was against either Russia or the West. He was neutral, and as long as other countries left him alone, and didn't threaten to dominate his country, he was willing to be friendly to them. He has for several years been friendly to the West, and since the Russian tone became softer after Stalin's death, he has agreed to an exchange of ambassadors with Moscow.

The position in East Germany may be much the same. The United States fears a unified Germany which would not be part of the Western alliance. It doesn't believe a neutral Germany is possible. But a neutral Germany is the only kind that makes sense. The Germans aren't pro-American any more than they are pro-Russian. They are for Germany, and it seems pretty certain that they aren't going to act on behalf of anyone but themselves. And if that is the case, it is only sensible that their neutrality should be guaranteed. They are too strong, potentially, to be allowed complete freedom of action on their own, after the country has been unified.

Instead of waiting to see what happens, and instead of hoping that Germany will fall into the Western lap, Russia's troubles in Germany might be used as an opportunity to find out how far the Kremlin is now prepared to go on German unification. Last year, the Russians proposed setting up a neutral, unified Germany.

Hot Potato

Neutrality would be guaranteed by the big powers, as well as by limitation of German armament. But Russia was unwilling to meet the American demand, made under the Truman administration, for free elections before a peace treaty was signed with a newly-set-up German government. Maybe the Russians will go along with this idea now, because at the moment East Germany is a very hot potato for them to hold. If there is delay, the Russians may restore complete control over East Germany, and the opportunity may pass.

Meantime, the cracks that appeared in the iron curtain in the past few weeks give some cause for optimism, but many voices have warned against undue rejoicing. After all, the Russians experienced a near-revolution 25 years ago when they put in their collectivization program, dispossessing millions of peasants. Stalin cleared up the situation by ruthlessly destroying the opposition to his program. The new leaders who emerge in Moscow after their present struggle for power is over may be as tough as Stalin. There is no reason to believe otherwise.



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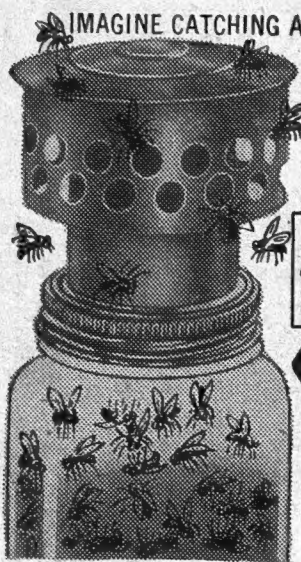
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Where does rust come from? From the barberry of Asia

Special correspondence by
Information Branch, Dominion Dept. of Agriculture

It Followed Wheat

STEM rust, which has all too frequently caused serious damage to Canadian wheat crops, is not of recent origin. Just where it came from and how it became established in Canada are questions that cannot be fully answered. But probably quite as much is known about the origin of rust as about that of the wheat plant on which it develops, or about the origin of other cultivated plants, and even man himself.

Rust is a living organism, a minute parasitic plant that grows on other plants. It is a close relative of the yeasts, mushrooms, and smuts, and of the little fungus that produces penicillin. A century ago Pasteur proved that these simple forms of plant life do not appear spontaneously, as was formerly believed, but reproduce themselves by means of spores in much the same way that the higher plants reproduce by means of seeds.

The origin of stem rust like the origin of life itself goes far back into antiquity. There are references in the Bible to "mildew and blasting" of crops 33 or 34 centuries ago, and by some students this is interpreted as rust damage. In the time of Aristotle, some 23 centuries back, there were definite references to damage from rust. The Romans must have considered rust a serious disease for they had a rust god, Robigus, to whom they made burnt offerings including, among other things, the entrails of a sheep and a red dog. Modern methods of rust control, as developed by the scientists at the Winnipeg Rust Research Laboratory, are less spectacular but more effective.

Wheat, oats, barley, rye, and the common barberry, all of which are attacked by stem rust, appear to have originated in Asia, and it was probably there also that stem rust began its career of destruction as a parasite on the ancestors of these plants. As wheat and the common barberry were introduced into Europe and other continents, the stem rust fungus followed and today it is found wherever wheat is grown. The introduction of stem rust into Australia is believed to have taken place about 1825. As early as 1755 it was present in the New England States, for in that year Massachusetts passed a law requiring the destruction of the barberry, the alternate host of the stem rust fungus. It is possible that stem rust was present in North America before the introduction of wheat, as a number of native grasses that harbour the rust occur here, but for various reasons scientists consider this unlikely.

Just when and how wheat stem rust found its way to Canada will probably never be known. Certainly it was of no great importance until wheat came to be grown extensively. The first mention of the occurrence of stem rust in Western Canada seems to have been made by Dr. John Dearnness who found it in Manitoba in 1891. In 1896 wheat at Brandon, Manitoba, was severely rusted, and in 1904 there was heavy stem rust infection on wheat in eastern Saskatchewan as well as in Manitoba. The destruction wrought by wheat stem rust in Western Canada in more recent times is well known. Losses in 1916 and 1935 were particularly severe but 1923 and 1927 were also years of heavy infection.

Diseases and pests, whether of plants or animals, become epidemic only when they can spread unchecked through large susceptible populations. Crowded cities and thickly settled districts provide ideal breeding grounds for human diseases. Similarly, large acreages of susceptible crops invite disaster from plant diseases. Potato blight, caused by a fungus that was brought from South America to Europe between 1830 and 1840, destroyed the Irish potato crop in 1845. The growing of coffee in Ceylon had to be abandoned because of epidemics of coffee rust that became particularly destructive about 1868. The chestnut blight fungus, introduced into the United States from Asia, has killed off practically all of the chestnut trees in the New England States. Much the same course was followed by stem rust.

When the length and breadth of the prairies, almost from Mexico to the Peace River Country, became a vast wheat field rust could spread like a grass fire. A further condition favorable to rust epidemics was provided when millions of acres were sown to susceptible varieties such as Marquis. At the height of stem rust epidemics in Western Canada in the late twenties and early thirties, the air over wheat fields was literally alive with spores. Scientists have calculated that at such times as many as 100,000 spores might settle on each square inch of southern Manitoba every twenty-four hours. Never in all history was stem rust able to multiply and cause damage on such a huge scale.

Limited Spread

The introduction of rust resistant varieties of wheat about 1936 limited the spread of stem rust but it did not disappear. There were still a few susceptible wheat and certain grasses

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on which it could persist. Scientists cautioned that the time might come when the resistant wheats would no longer be resistant; they had already identified some 200 races or strains of stem rust and at any time a new one might appear, more virulent than the others. This happened in 1950 when race 15B became common in the United States and Canada. This race can attack all of the commercially grown varieties of wheat. Fortunately certain new varieties now being tested show a high degree of resistance to 15B.

Where did the new race of rust, 15B, come from? Was Pasteur in error; could it have arisen by spontaneous generation? The answer of the scientists is that most likely 15B came from barberry. It was first found about fifteen years ago on barberries, and on grain growing near barberries, in the eastern States and from there it is believed to have spread westward to the prairie wheat fields. Once a race of rust becomes established in Mexico and southern Texas it can live through the winter there in the red-spore stage and spread northward each summer into Western Canada. That is what race 15B has done. The red spores of stem rust cannot survive the Canadian winter.

It is on the barberry that the sexual stage of wheat stem rust occurs, and it is there that hybridization takes place. If two races of rust infect a barberry leaf they may cross or hybridize and the offspring, just as in higher plants and animals, may be quite different from either parent. Race 15B is thought to be a hybrid strain of rust, and others like it or even more virulent may appear from time to time so long as there are barberries on which rust races can hybridize. Western Canada never had many common barberries and the few that were there were destroyed about twenty-five years ago. In the United States there are still large numbers of barberries, especially in the eastern States, but year by year the number is being reduced as a result of an active campaign of eradication.

Complete destruction of barberries, especially in the eastern States, but year by year the number is being reduced as a result of an active campaign of eradication.

Complete destruction of barberries cannot be expected to eliminate stem rust. The races now at large would still be able to persist on wheat and susceptible grasses, but their number would not be augmented, as at present, by newcomers that originate by hybridization on barberry. It is the existence of so many races of rust that makes breeding for rust resistance so difficult. Any measure, such as barberry eradication, that will hinder the genesis of new races will greatly facilitate the breeding program.

All Working

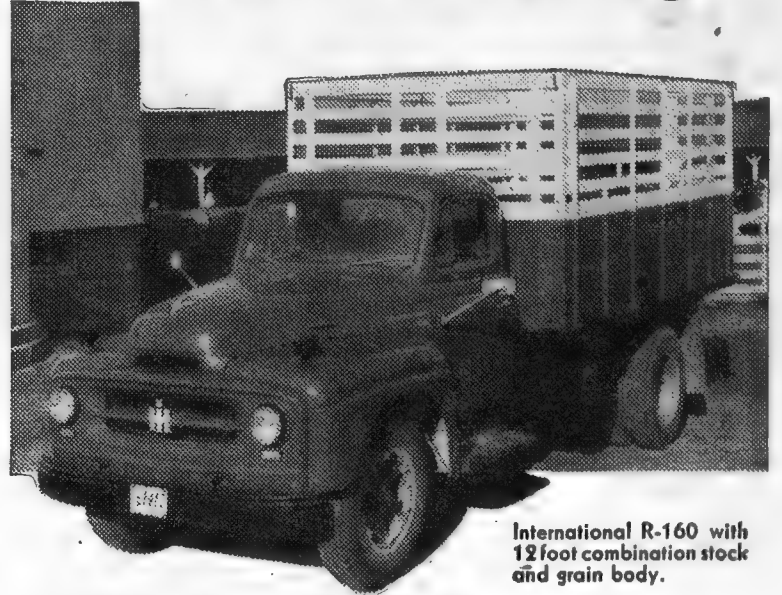
Canada, the United States, and Mexico are not the only countries where supposedly resistant varieties of wheat have been attacked by new races of stem rust. In South America, Australia, and Kenya resistant varieties have met a similar fate. Nor is stem rust the only plant-disease fungus that has shown a capacity for producing new races. The same tendency is evident in the cereal smuts, and recently the potato blight fungus has produced new races that attack resistant varieties of potatoes.

In endeavouring to produce disease-resistant crops Man has entered into competition with Nature. It is too soon yet to predict which side will win the contest. Man's experiments are directed towards a particular end but are on a very modest scale. Nature uses the method of trial and error, with the whole world for a laboratory. She is ever evolving new forms of life. Those that can adapt themselves to their surroundings survive; the weak and the unfit perish. Until Man disturbed the balance of Nature a state of equilibrium existed between plant life and its enemies — the disease producing organisms. Highly susceptible species of plants had been eliminated in the struggle for survival, and only those that were at least moderately resistant to disease were left. If a parasite became too virulent it exterminated its host and perished with it. Man has upset this natural balance by introducing disease organisms into regions where they did not occur before and where the native plants had never been subjected to a process of selection for resistance; and by growing large acreages of susceptible crops in regions where virulent disease-organisms occur.

In modern agriculture emphasis is on quality and yield and it frequently happens that these attributes are not compatible with disease resistance. In general the most highly rust-resistant wheats are the primitive types created by Nature, but they are of little agronomic value. Many of the most productive wheats—ones like Marquis — are rust susceptible. The problem of the plant breeder is to combine in a new variety both resistance and productivity. So long as new races of rust continue to appear this problem may have to be solved not once but many times; in other words, the fight against rust will require a continuing program of research.

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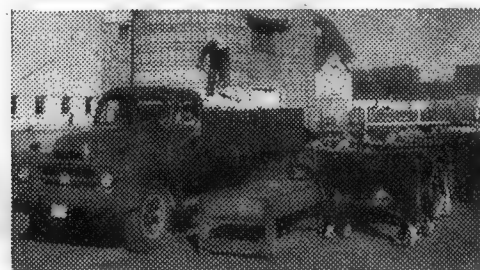


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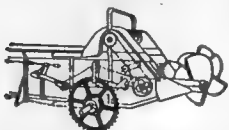
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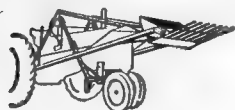
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You can build a fish pond right in your own back yard

By KERRY WOOD

"YOU have to see this to believe it," said my friend Charlie, wheeling his car along the blacktop six miles from a prairie city. "It's quite a sight, watching 1,900 trout jumping in a 2-acre pond."

We called at Andy's farm, a lovely layout surrounded by shelter belts. The owner wasn't at home, but Charlie assured me that we were not trespassing as we followed a road across the rolling prairie. There a plywood hut stood near some new tree plantings, with a tiny pond of muddy water in front of the building. A line-up of poles with binder twine stretched between them marked the car-parking lot, and I marvelled at the size of it.

"Oh, on a holiday you'll see twenty cars here," Charlie said. "Andy shares all this with the public."

"I read the noticeboard, which requested visitors to keep the place tidy and to please record their catch. Meanwhile, a strong wind was whipping waves across the bald little pond, making the water very roily.

"On a calm day it's an amber color like rainwater," Charlie told me. "You can go out in that boat of Andy's and actually see the fish swimming around underneath you."

One fisherman was there, whipping a trout fly across the dirty water. He reported that he didn't expect any bites until the wind died down, but he needed casting practise. So the long trout rod arched again, a line whistled, then the fly alighted daintily on the waters.

Deep Pool

What interested me was the dam, made by a bulldozer across a gully that was around 25 feet deep in the middle. There had been nothing but bare ground where the pond now shimmered, until a year back when the farmer decided to make himself a fish-pond. It looked like one day's work for a big dozer, filling in one end of a prairie ravine so that the run-off water from nearby fields could fill the area behind the earth dam. The watery side had been faced with rocks to prevent erosion, while at one end a screened run-off allowed the over flow to trickle down the draw below the pond.

"Andy just got interesting in trout fishing," reported Charlie. "But he lives away out here on the prairies, a hundred miles from any trout stream. So he made this 2-acre pond and released 2,500 rainbow trout fingerlings into it last spring."

By autumn the tiny fish had grown to ten-inch size, which seems phenomenal but it is not unusual. Providing food is plentiful, fish grow very rapidly.

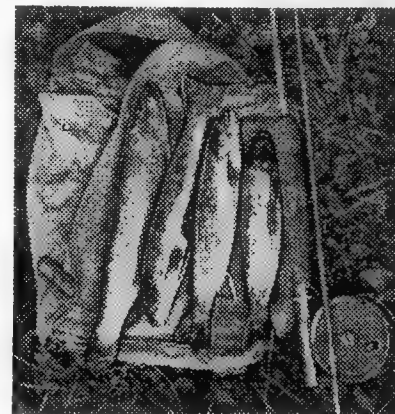
Andy's prairie pond was apparently a thriving place for food insects on which the young trout fed and fattened. Four months after planting the fish fry, Andy and fellow anglers from all over his district were casting flies, worms, frogs, wabblers, and spoon-baits into the waters. They caught 600 trout.

Daily Limit

"Andy puts a limit of 8 fish per angler, per day," Charlie told me. "He asks everyone to record how many they catch and size details. The largest fish taken so far was a 13½-inch, but 10 inches is the average this first season. Next year they'll likely grow to a couple pounds in weight. Right now, in that muddy 2-acre pool, Andy believes he's got approximately 1,900 fish dinners left for catching."

The farmer was so pleased with the success of the develop-

Home-grown Fish



ment that he called back the bulldozers and created two more ponds. Rainwater has already filled one draw deep enough to provide a home for fish. He has planted a new batch of fingerlings in this pond and hopes they'll be large enough for catching, next spring.

"One of the nicest things about the whole experiment," Charlie went on, "is what this has done for Andy himself. He's

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getting on in years, but this has given him a brand new lease on fun. He's happy as a three-year-old at his first ice-cream party, and there isn't a day goes by but Andy visits the pond to watch the fish jump or to cast a fly or to talk to the dozens of anglers from nearby farms and city folk who come to catch a mess of rainbows."

Easily Built

It struck me that here was something other farmers all over Western Canada could easily copy. Many farmers already have the machinery necessary to make an earth-fill across a well chosen ravine that is a natural catch-basin for water; in many cases a single day's work would be sufficient to construct the dam. A depth of 20 feet or more is needed to support sport fish, because shallow surface waters are much too warm for fish comfort. The pond needn't be larger than Andy's 2-acre plot, but it certainly wouldn't hurt to increase the size if the terrain permits.

You don't need to stock trout, if you haven't much luck at fly casting. Yellow Perch do well in small, deep ponds; in fact, perch might even be able to spawn in such a pond, whereas trout cannot and must be restocked at intervals. And on the table, perch are superior to most varieties of trout as eating fish. The species should not be mixed, however, and anyone trying this experiment would do well to seek the advice of a government fisheries expert as to the most suitable variety to stock and where to obtain the fry.

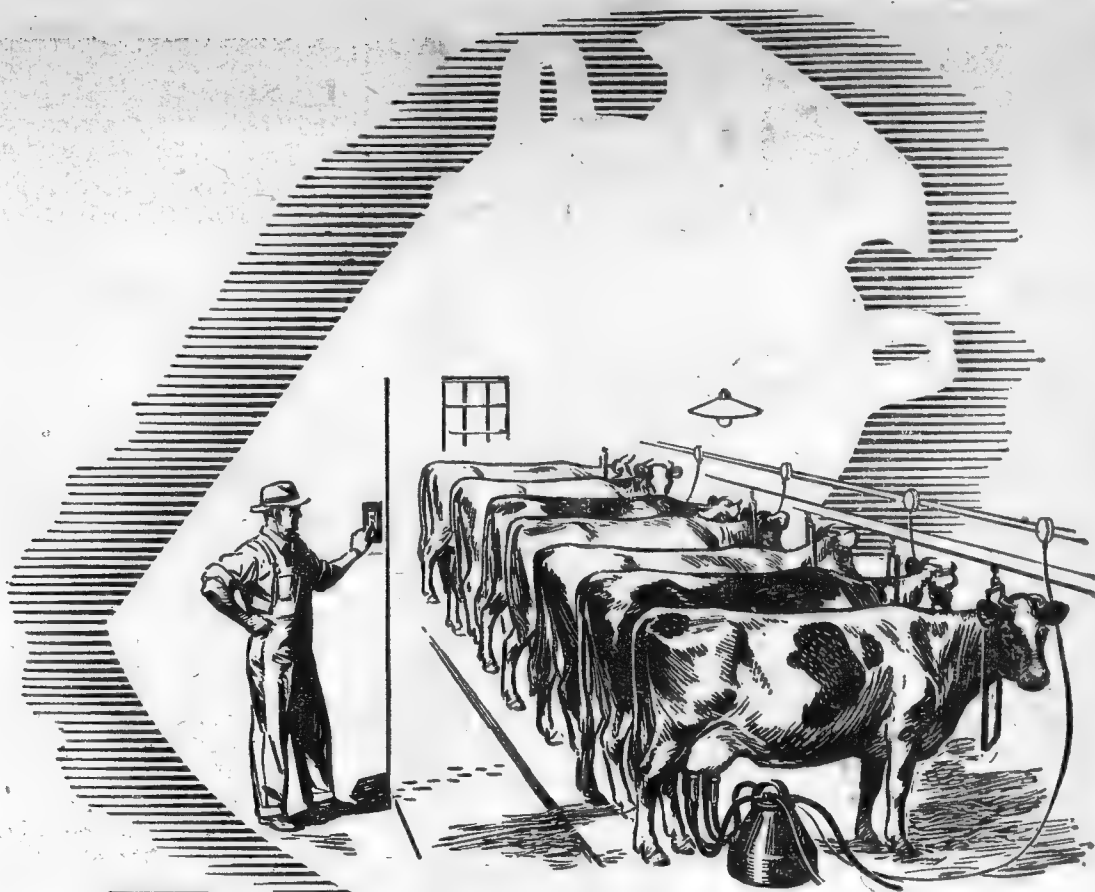
I read somewhere that water was capable of producing $2\frac{1}{2}$ times as much human food as the same land area, and the phenomenal growth of Andy's trout seems to verify this information. In addition to fishing sport, there are other factors that make a home-made pond desirable. Around a body of water trees and shrubs will thrive, insectivorous birds will come to nest and gladden your hearts with song, while domestic animals will appreciate a shallow end of the pond as their watering spot. Almost every farm in the west has at least one gully that could be dammed to provide a goodly pond instead of being left as an area that may become an erosion scar during the future.

And it's fun, too.

"You must come again and meet Andy," my friend Charlie said. "He's so happy about this that it does you good to chat with him."

As we drove back to the highway, we passed a carload of farm ladies all smiling as they waved fishing rods at us and headed for Andy's pond.

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FAIR GAME

by PINTAIL

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There is nothing so satisfying to the gunner as a brisk October day, with a good bird dog out front, a shotgun properly bored for the job, and the right ammunition.

In all my upland gunning I use Canuck standard loads. And while I try to suit my shot size to the game, I have started and ended the day with 7½ shot and had pheasants, grouse and snipe in the bag. And patterns seem even better since the new Pressure-Sealed Crimp was added to the Canuck shell.

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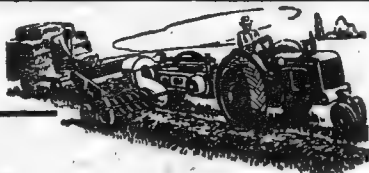


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Most people are asleep and miss the best

By FRANK S. MORLEY, Ph.D. (Edin.), B.D.

IN the twentieth chapter of the Book of the Acts is recorded the first story but not the last by any means of a young man who fell asleep in Church. The story reads, "There sat in a window a certain young man named Eutychus, being fallen into a deep sleep; and as Paul was long preaching, he sunk down with sleep, and fell down from the third loft, and was taken up dead". Now the young man had an excuse because we read also that Paul "continued his speech until midnight".

Today we have trouble listening to a sermon for twenty minutes. Moreover Paul could be heavy and even dry on occasions. Unlike modern preachers Paul was more interested in truth than in entertainment.

It has been held that a preacher should be flattered when someone goes to sleep, because it shows that he has complete confidence in the preacher. It does not show anything of the sort. Either he is very tired or he is very bored. In some cases it is the fault of the preacher. In most cases, and certainly in this one, it is the fault of the listener. If Paul could not keep everyone awake, the preacher today need not be too disheartened if somebody goes to sleep.

Jesus constantly had to urge His disciples to "watch", to stay awake. He told parables illustrating the peril of sleepiness. Luke tells of the disciples going to sleep on the Mount of Transfiguration and that "when they were awake they saw His glory". Too often men miss glory because they are asleep. Then the disciples slept again at the Garden of Gethsemane and Jesus had to speak the bitter words, "Could ye not watch with me one hour?"

Great tragedies occur while men sleep. Sisera, the mighty man of war, was pierced through the brain by a nail by Jael while he slept. Samson, the strongest man who ever lived, was destroyed by Delilah while he slept. And Jesus was betrayed while the disciples slept. We have a duty to stay awake. A man driving a car went to sleep and the judge held him accountable for the resulting crash. We are responsible for damage done as a result of our being asleep. It was because the Church in Germany was asleep that Hitler rose to power. Because the Church in Russia was asleep Communism came to power. And that same truth applies to other countries as well.

Man is a Lazy Animal

Man is lazy by nature and that's a fact. Most men will not work unless they have to and will work no longer than they have to. So in some occupations a man can lose his job by

working too hard. A man in Britain the other day was described by his employer as the finest worker he ever had, but the Union he belonged to kicked him out.

"He made the rest of us look silly", said a fellow worker. The saddest feature of modern society is the distaste for work and all the principles of laziness winning out. Soon we'll consider a forty-hour week too much.

Mental laziness is still more obvious than physical yatziness. The hardest task in the world is to think, and very few do it.

Few of us are awake to beauty. When you read such a book as that by Mary Webb, "Spring of Joy", you realize how blind your eyes are to the beauty of colour and form. Once a man died and meeting an angel he said, "It's a beautiful world I'm going to." "It's a beautiful world you're coming from," said the angel.

So he was given a few more months to appreciate the beauty of his world. In Cobalt, Northern Ontario, they often tell about the man who walked across a vein of silver breaking from the ground. It was a path for the workers to a certain mining area. But only this man saw what was right on his path and staked a claim which became the world's greatest silver mine. It is a parade of life. We are asleep to what is right at our feet.

All Men Are Queer

We should be awake to people. A little girl said to her mother, "Mummy, look at me just once as if you saw me". If only we could be awake to people as Dickens or O. Henry was awake! Or read a book by Gus-



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tav Echstein called 'Everyday Miracle' and you will see what I mean. He takes the animals, especially house pets, and shows how in their ordinary lives there are events of astounding dimensions. If this is so with animals, it is far more so with people. The saying of the old Quaker to his wife, "Everyone is queer except thee and me and sometimes I think thee's a little queer", is true.

But not only are people queer, they are also brave and kind and wonderful in many ways. You never know about people. Some time ago I stayed in a London hotel. After some days the owner and I had got to know one another and he took me down into one of the lower rooms and showed me a chapel. There every morning at ten to eight and in the evening, too, his staff met for meditation and prayer. Some were Roman Catholics, some Jews, some Protestants. He believed many bodily ailments had a spiritual basis and tried to maintain spiritual health in his hotel. A remarkable man. How he surprised me!

Some people are asleep to worship. So they will never be "lost in wonder, love, and praise". They will never see the great sight of the Burning Bush that Moses saw. They will never hear the voice that Augustine heard. They will never hear the call that Isaiah heard. The vision of the Damascus Road that Paul saw they will never see. The "Presence that disturbs me with the joy of elevated thoughts" that Wordsworth wrote about they will never feel. A woman told Turner, "But I never see the sunsets that you see." The artist replied, "But, madam, don't you wish you could?" No she wouldn't, for most of us are content to be animals. We don't want to be disturbed. We are content to feed the swine.

Laziness a Great Sin

We should be awake to the importance of this present time. As a new edition translates Romans thirteen and eleven, "The present time is of the highest importance. It is time to wake up to reality. Every day brings God's salvation nearer". If we are awake we shall see God doing great things in this world and the time of the Apocalypse drawing closer. We live in the most tragic, most awesome era in the history of the world. The destiny of men's souls, the destiny of mankind, the destiny of your own soul are being decided. And we sleep on.

Jesus is still going through the world imploring people, "Wake up and work. Wake up and live. Wake up to your possibilities and talents. Wake up because the end of the world is coming and you are not ready for it".



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Big Litter



There are 16 little pigs in this picture, but you can't count them all because a couple are away underneath. Len. W. MacAhoic, Wetaskiwin, won \$5 for the picture.

Farmers make dollars from herd testing

By TOM LEACH

SHOW me a farmer who is a member of the B.C. Cow Testing Association and I can tell you that his cows are making him a profit. He is making a profit because his cows produce 60% more butter-fat each year than the average Canadian cow.

This improved production in the 430 herds which are under the close scrutiny of the cow-tester each month of the year did not come about overnight. It has taken years of testing and elimination to reach the present average of 400 pounds of fat for the 11,000 cows under test. In fact the Livestock branch of the B.C. Department of Agriculture has been severely criticized for their slow process of setting up new testing routes.

The one factor which did more to hold this work back than any other was the low salaries offered to supervisors of the cow testing associations. Fair progress was made until the war brought with it higher pay in other industries. It became more difficult each year to find replacements for those testers who dropped their work to find other employment.

Back in 1945 the late K. C. MacDonald who was then minister of agriculture for B.C. raised the grant to \$75.00 per month to any association who would raise a similar amount among their members to pay the salary of the tester. At that time two of the twelve associations were forced to operate on a forty-day test period to overcome the shortage of help.

Fees had to be increased again in 1949 but the work, has expanded and more herds are under test and producing more milk and butter-fat than in the history of herd improvement work in British Columbia.

The B.C. Department of Agriculture paid out over \$33,000.00 in 1952 as a direct subsidy to Cow-testing Associations to help defray the cost of the supervisory work. The members contribute as much or more towards the work. It figures out to a sum slightly in excess of \$6.50 for each cow that is on test in the province and at present rates paid for surplus butter-fat amounts to little more than ten pounds extra production.

Better Production

In return for this cash outlay the farmers are getting better production from their herds every year. Looking back over a few of the reports it becomes quite obvious that production in herds under test is better than in other herds but that the test-

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ed herds are showing improvement.

Slightly more than 25 years ago the average cow in B.C. was producing 4,800 pounds of milk with 170 pounds of butter-fat in each lactation period. The cows under test at that time were out-producing the average cow by 2,700 pounds of milk and almost double the amount of fat. It was a good start.

During the intervening years the farms under test have been doing better. They have now increased the average milk production for all cows on test to 9,382 pounds with 400 pounds of butter-fat. Not all of the increase can be attributed to testing and selection but a lot of credit must go to the testers and directors of the herd improvement work.

The cows in B.C. a quarter of a century back were lucky to receive good hay. Some of the "fancy herds" with financial backing on occasion received special dairy rations. But most milking cows which included many species of bovine with an udder had to be content with hay and on Sundays a little crushed oats.

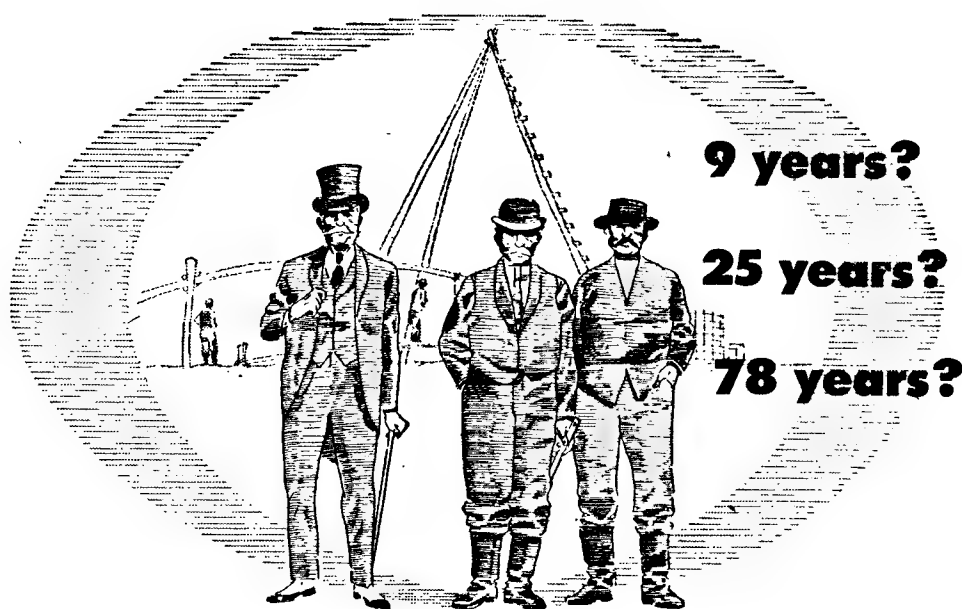
Competition among the supervisors of the cow testing associations became keen at times. They were not satisfied simply to take the milk from the cow and test it and report on her ability to produce. They were anxious to improve the output from each herd in their district. They encouraged selection of the cows, elimination of boarders, the use of better bulls and in addition they started to tell the farmers about better rations.

Big Gains

The results have been continued improvement in milk and butter-fat yields. During the first three years of testing under the provincial plan the average cow gave 6,562 pounds of milk and 268.5 pounds of fat. Those years were 1914, '15 and '16. Forty years of testing has raised production by 2,820 pounds of milk and 131.5 pounds of fat.

Seeing neighbors obtain higher yields has encouraged many farmers to join the neighborhood association. It would be difficult to imagine that many undertook to spend \$1.50 per cow with a minimum fee of \$20.00 per year simply on the say-so of the bulletins published by the department in the early days of cow testing.

They contained sound logic. They appealed to the husbandman who wanted to know his cows better but I am afraid that they failed to show specifically where testing the herd would put actual cash back into the farmer's pocket. This was shown in an oblique way as though it might offend the farmer of those days to increase his milk check at the end of the month.



How long does an oil well last?

The average well goes dry in 20 to 30 years. To keep your car rolling and your home warm, a new well must be found to take its place. That's why the search for oil never ends; why Imperial, for instance, spent almost \$50 millions to find and develop new oil in western Canada last year.

Oil has become one of Canada's important industries.
How many of these questions about it can you answer?

Which of the following contain petroleum

lipstick? binder twine?
printing ink? insect spray?

Oil is a part of all the products named and of hundreds of others which contribute to our everyday living.

In 1946 Canada produced less than 10% of the oil she used. How much of her needs does she produce now
18%? 40%? 55%?

About 40%—and we use twice as much as in 1946. Today's production would meet 80% of the demand at that time.

How many service stations would you say Imperial operates across Canada
19,500? 10,000? 0?

None. Approximately 10,000 stations carry the Imperial Esso sign, but they are operated by independent dealers, each in business for himself.

In oil field language, a "roughneck" is one of the crew of a drilling rig. What is a "toolpusher"
tool salesman? drilling foreman?
motor mechanic?

Drilling foreman. Oil field slang is colorful. A "Christmas tree," for instance, is a combination of pipes and valves to regulate the flow of oil from a well.

Opinion surveys show that most Canadians believe a business is entitled to a profit of 15¢ on a dollar of revenue. Last year Imperial earned
7½¢? 11¢? 19¢?

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It takes many years for a long enduring tree to develop to full growth. During that period it encounters intervals of adversity, possibly through drouth, insect pests, tempests and so forth, and it also enjoys periods wherein conditions are suitable for development.

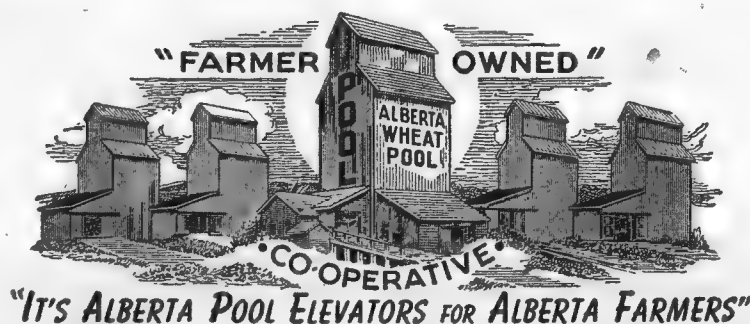
The farmers' grain handling co-operative movement in Western Canada has followed much the same pattern. It was started as a small seedling many years ago. It was nurtured by the devotion of determined and farsighted pioneers. It has been built up into a mighty organization which has given a degree of protection and shelter to the farm people of this area.

The policies of the Wheat Pools have been formulated on the experience of operating farmers over many years. Their objective has been the building up of elevator systems which give honest and equitable treatment to member patrons and return excess earnings to those members.

The creation of the Wheat Board was a farmer objective many years ago and was achieved against determined opposition. The achievements of that Board, particularly during the past two years, has meant a great deal to the grain producers in the prairie provinces. While they have not received top prices for their products they have obtained an average price and have been given a degree of price protection obtainable through no other method of marketing.

Thoughtful farmers must be appreciative of what has been achieved by the farm movement. They must also realize that any efforts to impair the usefulness of the Wheat Pools and the Wheat Board will react against the farm people of the West.

It is the builders who achieve things; the wreckers only destroy.



"I saw on the farm" --

One morning I went hunting gophers with my father. Dad had shot one gopher and left it lying beside its hole, when a weasel came along and found the gopher. The weasel dragged the gopher to its own hole. When he got to his hole, he backed down himself and then pulled the gopher down, although the gopher was almost twice the size of the weasel. He did this once again at which we all laughed because it was such a joke.

James Ellice.

Blackie, Alta.

One day my little brother was playing outside when, all of a sudden, he came in saying, "I saw a goat!" We didn't know what to say, so we went out to see. To our surprise it wasn't a goat, but two deer running across the pasture. We saw them go further, but we didn't see them come back, so we don't know what happened to them.

Elizabeth Wall.

Box 933, Swift Current, Sask.

One day we saw a huge flock of big white swans fly over. They landed across the road in our neighbor's field. Four days ago, they were about one-quarter of a mile away; as I am writing this, the swans are only about forty rods away. We tried to count them. There are about 175 to 200 of them. Often they stretch their wings, and how huge they are. One time a team went by and how they stretched their necks. Swans are very attractive. A car stopped and honked its horn, but this did not scare them. We have all been very busy watching the swans from our window.

Marlene Nepstad.

Valhalla Centre, Alta.

Some time ago, three deer came in our garden to eat the vegetables that were left in the garden in the fall.

One little deer would go to its mother to suck a while and then go back to find some more to eat. They came before sundown sometimes, so we could stand by the window and watch them until they thought they heard too much noise, then they would jump over the fence into the brush, and then come back after dark to find some more to eat. We always kept as quiet as possible so the dog wouldn't get wise. He would soon scare them away.

Mary Harder.

Harmattan, Alta.

One day in March, when dad and I went to the barn to throw out the manure. I noticed that our calf's head was lying flat on the floor. I quickly climbed over the boards and into the stall, I picked the calf's head up to see if it was alive yet. It didn't move and I put its head

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down. I called dad and said that the calf was dying. I quickly untied the rope to which the calf was tied. When dad came, he lifted the calf's head, when it didn't move he slapped it lightly on the back, and the calf quickly stood up. Dad said that the calf was just sound asleep.

Orist Holabetz.

Aberdeen, Sask.

One day I looked out of the window in our house and to my surprise I saw three goats with our cows. The goats were chasing the cows around and when the goats would stop the cows would chase them. I called my brother and we both watched. After a while, we chased them into the barn. We didn't know who the owner of the goats was so we looked around. We soon found him and gave back the goats. It looked like they were playing a game and we sure had fun watching.

Victor Kulischuk.

Clairmont, Alberta.

Last spring one of our ducks hatched a little black chicken with her ducklings. She did not like it so I brought it in the house and made a pet of it. I would tap the floor with my fingers and she would come and get the food. When she was older she would peck the windows when she wanted in. One Sunday we all were away late. When we came home I saw our house cat and her two kittens asleep under the stove and my pet chicken perched on the warm fur of the mother cat, so from then on I called my pet "Perch".

Leddy Dunham,

Carnduff, Sask.

We had a bad storm and our granary roof was blown off so mom went to our neighbor for help to put the roof back on. Somehow our dog sneaked along. The dog jumped over the page-wire fence and hung himself up on the top wire. When we missed our dog we figured he had gone back to his former place so we didn't look for him. Then several days later our neighbor somehow noticed our dog hanging on the fence and thought it was a coyote so he was going to shoot when he noticed it was our dog. So he untangled the dog from the fence, and boy, was he ever glad to be free.

I don't think he'll ever try to jump over as he always crawls through the fence instead of jumping over.

John Ens.

Mayfair, Sask.

While out hunting beer bottles with my cousin, we saw a black raven and a pure white raven flying together. It is the first white raven I ever saw.

Richard Carty.

Eureka River, Alberta.

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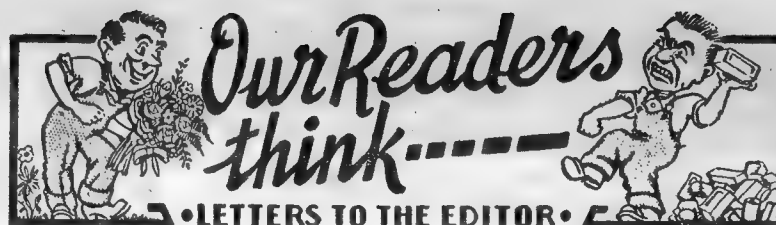
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To the Editor :

There has of late been much argument over what is wrong with our educational system. You, Mr. Editor, have spoken, editorially, on the subject many times. At no point in any of this controversy was the word, dialectics (the rules and forms of reasoning) mentioned, and as far as I can ascertain is not taught in school.

The school becomes a scene of solemn farce, Where ignorance on stilts, his cap well lined with logic not his own, With parrot tongue, performs the scholar's part, Emerging soon, a graduated dunce.

It would seem that few people know enough of the laws of logic to form a clear opinion on any worthwhile matter.

Do you know of any state that can exist without conforming to a set of well-defined rules?

How, then, can we reason correctly without rules, and this must follow, if we do not know the rules, we cannot apply them.

I once heard a parrot recite the Lord's Prayer, word perfect, but he learned it by rote. If a child is not taught to reason by rule, then he must reason by rote — as the wind blows. A

classical example of reason by rote, are the replies to James Henry's letter in the April issue. Eight different views and a multitude of meanings all, "read into", the same letter. I wonder how many readers recognized your four word contribution for what it was, "the planted thought", a practice much abused these days.

In the U.S.A. there is much ranting, and to a degree in this country, about "freedom of speech, and thought", "to think how he pleases", "subject to no law", "you reason your way", and, "he will reason his way", gaudy catch phrases without a lick of wisdom.

No man can be a law unto himself; he cannot be a subject and yet not be a subject. What I am trying to point out is, if everyone is going to have his own rules, or no rules at all, which seems to be the state, the rule that, right is the opposite of wrong, will not apply, and so on ad lib.

Now if we agree with the law of first principles, and law's are the first principles of logic, then the first principle of education is the teaching of these very rules.

Is it any wonder then that there is such a demand for the so-called comic papers! People

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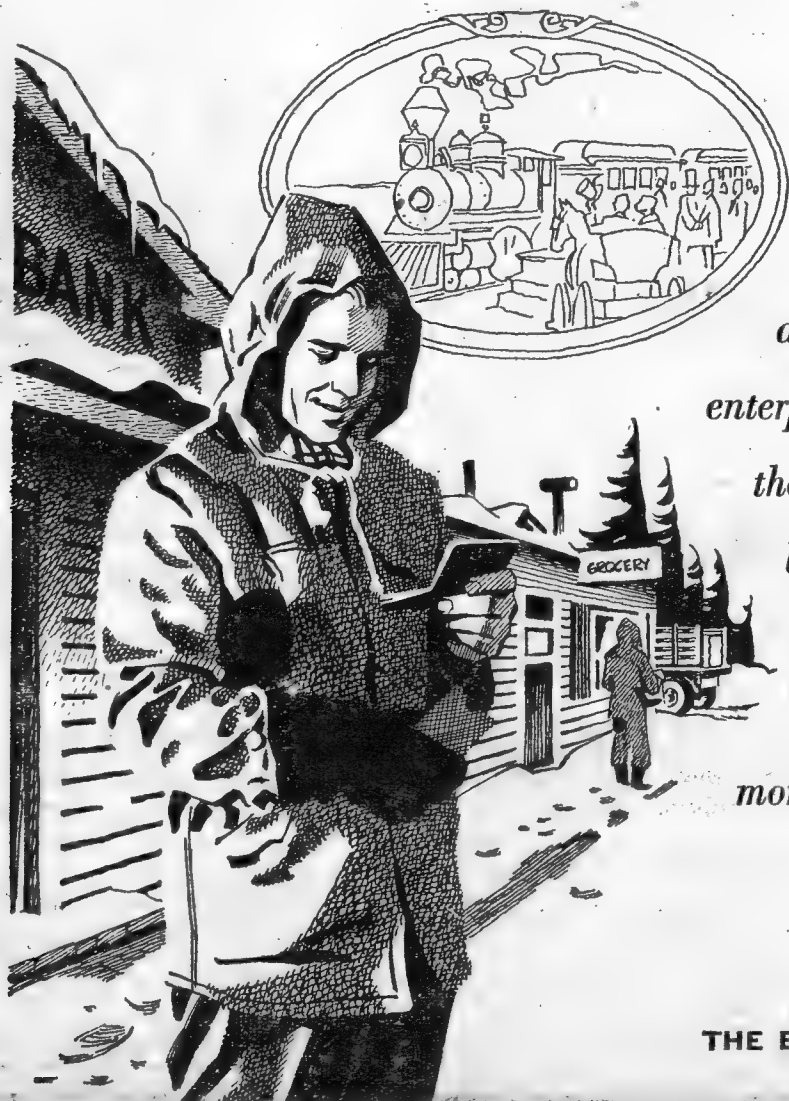
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can no longer understand words, they must have pictures drawn, and in technicolor. 200 B.C. picture writing; 1953 A.D. picture writing. Did some say, "we are on the march." May be; which way?

W. G. Glover.
Buffalo Creek, B.C.

To the Editor :

Your article on education, in the April issue of your paper, is a very timely one, and it is to be hoped we won't have to wait very long for a complete change in our educational system.

We live on a homestead and some of the things we find out, from living out here, are outrageous as far as education is concerned.

We were told the children out here just need to know how to read and write a little bit. Some of the teachers we get are from farms I gather, as they never "have time" to get the children through their books.

However, the children are promoted to the next grade, because "it isn't ethical not to pass them". No wonder the standards were lowered so the children could pass! My son, now in grade 9, was told at the beginning of September that 40% of the pupils are going to fail just on general principles. Just what that means, I do not know.

My son didn't learn H.C.F. and L.C.M. of numbers until this year in grade 9. I learned that in grade 7 when I went to school. If I didn't sit here at the table and explain his work to him for 2 or 3 hours each and every night he wouldn't be fit to write exams at all. And the teacher gets the cheque each month; I don't get a cent. But I am required to send my children 3 miles to school, regardless of road conditions in spring or 40° below in winter, or lose my family allowance cheque.

I can't and never could, see a single thing about this "new" system, to recommend it, and it seems to me the sooner the children have to get back to the "three R's", the sooner we will have men and women who will be able to carry on business in stores, municipal affairs, etc., with something like a bit of knowledge. How many graduates of this "new" system are capable of holding government positions today. The children are not taught how to spell correctly, nor can they do arithmetic with any certainty. Writing seems to be a lost art also, as most of it looks like mud tracks. Neatness doesn't enter the picture any more.

Mrs. Ruth Veloshen.
Violet Grove, Alta.

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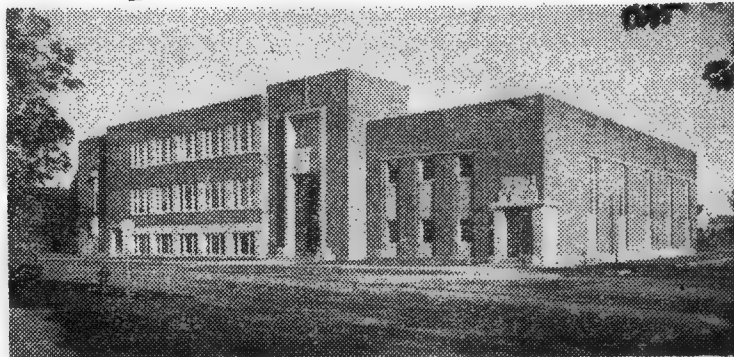
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Choice roses can be grown in prairie gardens

By H. F. HARP

WE, who garden in the Prairie regions are apt to envy those who live in the milder sections of the country when we consider the ease with which the choice roses are grown there. However, enthusiastic gardeners succeed in producing very good specimens of Hybrid Tea and other related kinds right here on the prairie, but far more work is involved and the disappointments are many. In spite of the best possible care these tender roses cannot be expected to last very long, about five years seems to be the average life span. Varieties of Hybrid Perpetuals such as Capt. Hayward, Mrs. John Laine and others of this group may be expected to last longer.

The chief reasons for their short life in prairie gardens are severe winter cold, prolonged and dry, with hot summers and drying winds. After the ordeal of winter the plant faces heat and drought and has little chance to regain its lost vigor before winter is again upon it. Whatever we can do to make conditions more comfortable will be repaid in more vigorous plants and more plentiful bloom.

There are several ways of caring for tender roses through

the winter, but the most satisfactory method tested at the Experimental Station, Morden, is outlined as follows: At season's end (early October) place a mound of fine soil around each plant to a depth of one foot. This soil must be brought from another part of the garden. On no account must the soil from the rose bed be used as there is grave danger of exposing the roots of the plants. The soil must be reasonably dry and fine so that it will sift down among the canes providing each with an insulation from the freezing and thawing of early spring. After this soil mound has been applied a covering of straw (flax straw is preferred) to a depth of two feet is put on when the ground is frozen; this is usually around the first week of November. The reason for delaying the application of the straw is to give the field mice a chance to find their winter homes elsewhere, otherwise they will make themselves comfortable under the straw and feed on the bark of the rose plants. When this happens the plants are weakened and often are killed outright by spring.

A second method is to lift each plant in October and transplant

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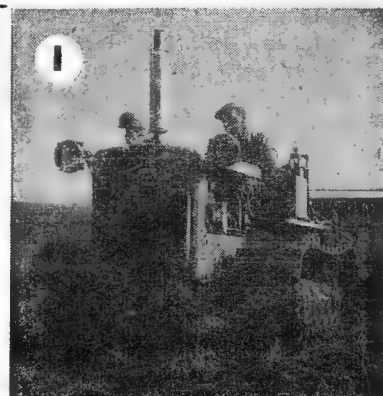
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it into a large flower pot or candy pail for storage in a cool basement. The storage must be very cool or growth will start too early. A minimum of watering is required through the short days, just sufficient to keep the bark from shriveling is all that is needed. By mid-April these stored roses may be transferred to their summer quarters outdoors. Replant them firmly and postpone the pruning until mid-May when they should be cut back to three or four eyes.

There was a time when these tender roses could be purchased very cheaply from department stores and many were planted each spring with no thought of trying to winter them. The blooms they produced the summer following planting were considered good returns for the small cash outlay in purchasing the plants. Today, like everything else rose plants have increased greatly in cost, and it will pay to provide protection for them over winter.

Cut Suckers

As these roses are budded on understocks of one kind or another, some confusion arises in the mind of the amateur when suckers arise from the base of the plants. Unless these are cut out they will choke out the cultivated rose in short order. The trained eye can easily detect these offenders, but the novice had best examine his plants closely from time to time. Sucker growths are usually rank and have seven or nine leaflets, whereas the Hybrid tea leaf has only five divisions. All growth issuing from below the union of stock and scion is of course sucker growth and must be removed.

Shrub Roses

As a general rule the Shrub roses have one season of bloom, namely, late June and early July. Rosa Lugonis with its pale sulphur yellow single blooms on gracefully arching stems opens the season of hardy roses here, followed by Rosa Attaica, Harrison Yellow, Betty Bland, Hansa, Geo. Will, Wasagaming and

many more, some will give occasional bloom throughout the summer. Prairie Youth, a recent Morden introduction, is now available from western nurserymen and should be included in all plantings of shrub-roses. It makes a spreading bush six feet high that is laden with double salmon-pink blooms borne in clusters. There is no magenta in Prairie Youth which detracts from the beauty of many of the hardy roses. It is advisable to plant this variety facing north or east to bring out its best color. Facing south the lovely salmon color will be found to fade rather quickly. Prairie Wren, another Morden introduction is flesh pink double and equally desirable. It flowers a week earlier than Youth, and makes a more compact bush at a height of about four feet.

Pruning Shrub Roses

The hardy shrub roses bloom on old wood and require little attention other than the regular removal of worn-out wood. Once every three years or so the plants will benefit by having about two-thirds of the old wood cut out to the base. This pruning is best done in late July or as soon as the plants have finished flowering. Some winter damage may be expected on some of the varieties mentioned, but as a general rule they will be found perfectly hardy. Rosa hugonis is the least hardy but should be tried by those gardeners who have a sheltered spot for it.

Pruning the Hybrid Teas that have been left in the ground over winter is no problem at all. It amounts to cutting off the dead wood down to a live bud which is often at ground level. Pruning off the old tops should not be attempted before mid-May.

When new shoots have developed to six inches or so the plants may be given a dressing of complete fertilizer such as "Vigoro". A small handful to each plant is raked into the soil. If dry weather ensues water should be given or the benefit of the fertilizer will not be felt.

Trick Horse



Ell Wesloski, Red Jacket, Sask., took this picture of Billy Verboan on his trained horse, Paddy.



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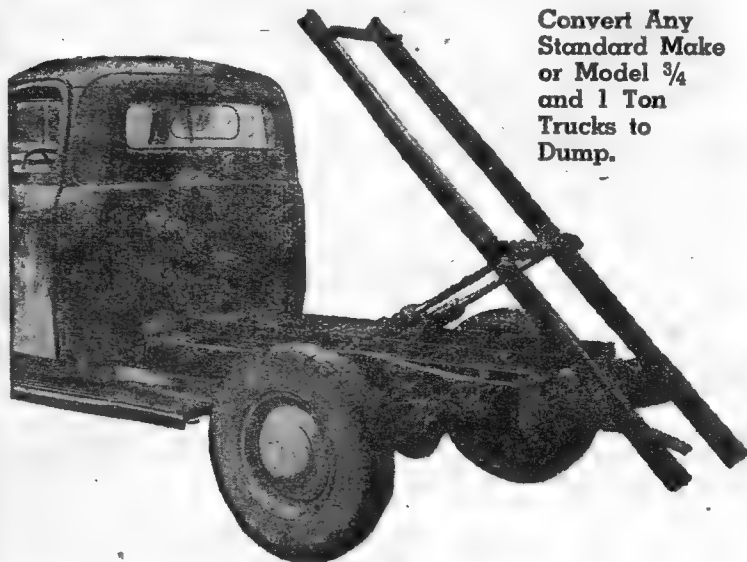
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The roadside problem is being tackled in Sask.

By JOSEPH PAUL

IN British Columbia, "the lieutenant-governor may fix the distance from any highway at which fences, buildings, or other structures may be placed, and also the distance at which trees, shrubs or hedges may be planted". So far the only regulation made under this section of the Highway Act relates to buildings, and prohibits their erection within 25 feet of the property line fronting on any highway within unorganized territory of the Province.

In Alberta there are no regulations governing the planting of trees or shrubs on lands adjoining provincial highways; but in tree-planting projects sponsored by the Alberta Government the practice is to place trees back 75 to 100 feet from the property line.

In Saskatchewan a permit is required for any planting to be done within 300 feet of the centre line of a provincial highway; and permits issued usually require a distance of at least 150 feet to be left between the planting and the centre of the highway.

In Manitoba, "unless authorized by a permit no person shall plant or place any tree, shrub, brush, hedge, fence, or other object within one hundred and twenty-five feet from a provincial trunk highway outside a city, town or village . . . this shall not apply to a wire fence."

These regulations apply only to highways built and maintained by the provincial governments; but they are based on experience with snow drifting and winter maintenance. They may be taken as the best available pattern for roadside improvement. Few, if any, rural municipalities have similar re-

gulations but in some districts a lot of progress has been made on a voluntary basis.

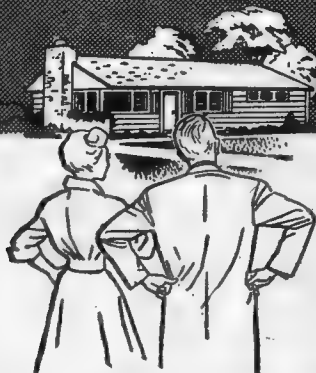
The idea of roadside improvement has spread through the rural municipality of Star City in Saskatchewan to make it an example in this regard. Ninety miles of fences have been removed to permit back sloping and shaping of road ditches and to clear away every obstruction to drifting snow.

Mr. S. W. Eastman, the reeve, explains that fences once removed are seldom rebuilt, but if a fence is needed it is set at or near the hedge which is planted 100 feet from the centre of the road. A hundred miles of trees and shrubs have been planted in this municipality and they are still planting them at a rate of 80,000 per year. "We are all for tree planting," Mr. Eastman says. "We consider a four-year-old hedge along a grade that is one foot above the fields will stay snow free through the winter. We also find our crops are better for several rods out from hedges."

Blocked roads have been the bugbear of every farm community since the disappearance of the team and sleigh. Drifted snow has often been the last straw in settling the question of whether a family should move to town or remain on the farm. With many a town-dwelling farmer the first move has been intended as a temporary one "to keep the kids in school."

Of course the process spreads and it is pretty hard for families who are left isolated to stay on their farms with no one to help them keep the roads or the schools open. And so the move-

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ment of farm homes continues. The cows, pigs, and chickens must go to market; and more and more communities are forced into grain farming, with a high overhead for the upkeep of town or city homes. There is no use talking "balanced farming" in these communities unless another depression takes a hand.

Serious as the matter of winter travel may be, it is not the only problem that starts at the roadside.

The place to start The weeds which show up along the road are

the chief concern and often the only concern of the weed inspector. In Saskatchewan and B.C. the municipality is required to control weeds on the road. In Manitoba and Alberta, the land owner or occupant must control the weeds up to the centre of bordering roads; although the municipal districts in Alberta may adopt a by-law to take over this responsibility. Regardless of responsibility, if the edge of a field can be kept clean there is no problem inside which cannot be handled.

A good, thick stand of roadside weeds is much better than bare soil because they will prevent the grade and ditch from washing away and they keep the grade from becoming waterlogged. However, you will have trouble trying to put these points over with the weed inspector. Mowing once or twice a year will keep everything under control; but a good job of mowing is impossible unless the ditches have been backsloped and shaped.

The 66-foot surveyed road allowance is not wide enough for a good job of backsloping, even where the grade is narrow. It is useless for mun-

Road allowance too narrow of backsloping, even where the grade is narrow. It is useless for mun-

icipalities to contemplate purchasing additional right-of-way for all their roads. It takes a lot of space to do the job right, but once done the land can be farmed or used for meadow right up to the edge of the grade. That is one argument for voluntary improvement. Instead of losing land the farm is eventually enlarged by a half acre or more, and the process of mowing roadside weeds is replaced by hay making or grain harvesting.

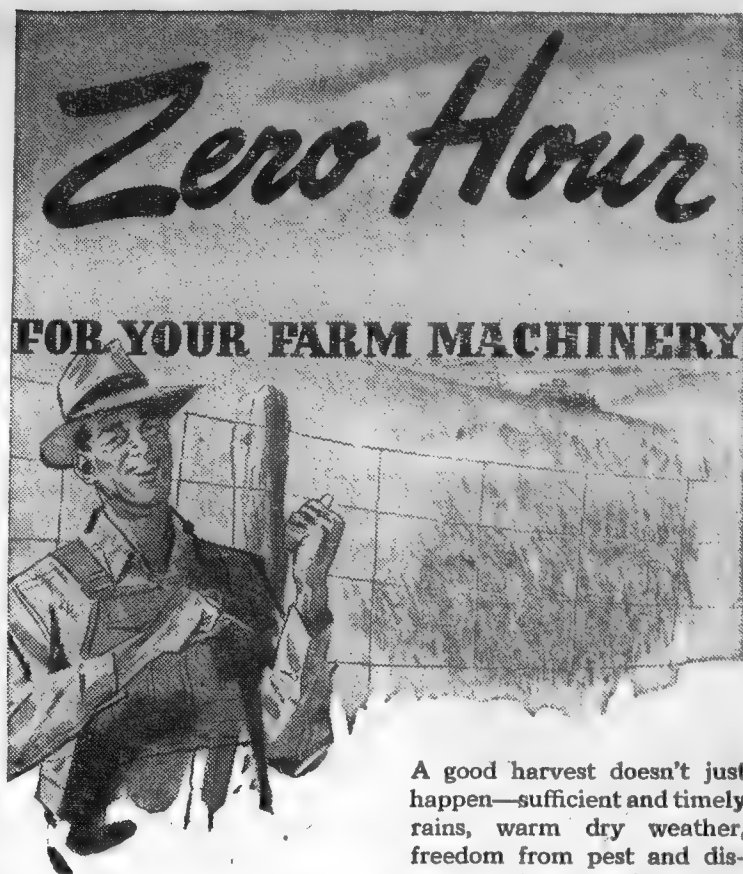
Planting a half mile or so of trees is a lot of work, and moving fences and telephone poles is another big job. The whole process could be greatly assisted if municipalities or community organizations purchased tree planters and power post-hole diggers to speed things up. Money and work put into a permanent programme of improvement will show up well in comparison to the funds which are dissipated for construction of high and dangerous grades which blow and wash away so fast; or the money spent for complicated spraying equipment and chemicals to kill a few of the susceptible roadside plants; or to leave a hedgerow of dead brush and trees to clear away by hand.

At the 1952 meeting of the Saskatchewan Natural History Society, spraying was blamed for the destruction of roadside plants required by birds. Several similar complaints have been noted from American magazines. The naturalist looks askance at any practice which destroys the roadside refuge of wild life, and thus upsets nature's balance of birds and insects at the very threshold of grain fields and gardens. The weed control expert, on the other hand, would reduce the roadside to a strip of dirt partly covered with grass, attractive only to wayfaring weed seeds, gophers, and grasshoppers. People are plainly pulling in opposite directions on the problem of roadside spraying; but the naturalist appears to have the soundest argument.

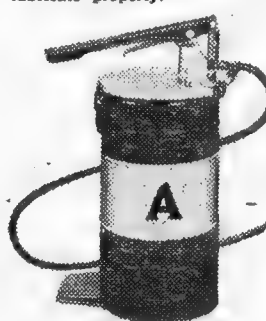
One other problem persists, even after roadsides have been shaped, planted, and improved with avenues of trees. The endless parade of roadside rubbish; the vexing trademark of public manners at their worst, with the empty beer bottle cast in the leading role, that is the greatest discouragement to the farmer who seeks to beautify and protect the right-of-way by developing a tree belt and a strip of meadow. But, cheer up. When public opinion becomes strong enough, some fitting punishment will be devised for the promiscuous bottle tosser, and manners will improve.

Beside the point with avenues of trees. The endless parade of roadside rubbish; the vexing trademark of public manners at their worst, with the empty beer bottle cast in the leading role, that is the greatest discouragement to the farmer who seeks to beautify and protect the right-of-way by developing a tree belt and a strip of meadow. But, cheer up. When public opinion becomes strong enough, some fitting punishment will be devised for the promiscuous bottle tosser, and manners will improve.

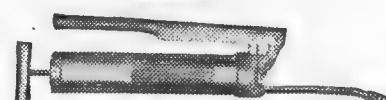
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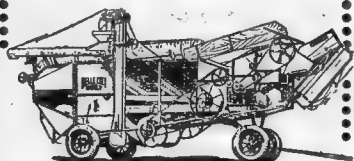
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Q.: Please tell me how to dry and preserve mushrooms. — (Mrs. T. D., Iron Springs, Alta.)

A.: I have dried corn, peas, beans and mushrooms by this method given below. Others have told me of drying the mushrooms on wire racks kept in place free from moisture or dust. I would think this might be even quicker.

Drying Mushrooms
(or other vegetables mentioned above.)

Clean and wipe mushrooms and slice them thin. Of course you would not slice other vegetables. Place in clean small cloth sacks such as cheesecloth

or sugar sacks. Fill about half full. Tie the tops and hang in sunshine on clothesline. Toss the bags about many times per day to keep them circulating. Bring them in if weather looks like rain or at night. When very dry, place them in any clean, air-tight containers for winter use.

Canned Mushrooms

Wash well. Leave small ones whole and cut up large ones. Precook for 3 minutes. Pack into clean sterilized jars. Fill jars with water in which they were cooked or boiling water. Add one tsp. salt (coarse salt) to each quart. Screw tops tightly and process in hot bath for 3 hours or 30 min. in pressure cooker with 10 lbs. pressure.

Freezing Mushrooms

Cut off base of stems. Blanch in hot water 3 to 5 minutes (according to size of mushrooms). Dry and wrap in suitable wrappings. To use these later on, place frozen product in boiling water and boil 10 to 15 minutes or for frying thaw gradually and fry in hot fat as you would for fresh ones.

Q.: Could you tell me any place where I could get the pattern to re-foot cotton stockings. — (Mrs. F. A., Millet, Alta.)

A.: I would contact your nearest District Home Economist or write to Extension Dept., Dept. of Agriculture, Edmonton, Alta., and ask for such a pattern. Sorry I have not got it.

Q.: A while ago I read of a woman making candy from seaweed. She spoke as if it were common in California. Can you help me? — ("Ribbons," Edgerton, Alta.)

A.: This is a new one on me. Is there any ex-Californian who can give us any light on this? We used to eat dulce that came to us from Nova Scotia. It is a dried seaweed that we liked as much as any candy.

Q.: Have you any recipes calling for poppy seeds other than a poppy-seed cake? — Mrs. T. R. S., Tramping Lake, Sask.)

A.: Here are some recipes below. I have not tried any of them myself, but those who gave them to me said they were home-tested. Anyone wishing to know where they can buy poppy seeds write me enclosing their stamped, self-addressed

Happy sick-a-bed-time



By LOUISE PRICE BELL

CONVALESCENT youngsters should be happy youngsters, and it isn't difficult to keep them in that pleasant state of mind if the idea is given a little thought. A cheerful, orderly room, fresh bed linen and pajamas go far toward establishing an atmosphere of contentment... but of course it takes more than these things to keep an active child happy once the measles, or "sniffles", or chicken-pox is over and sick-a-

bed-time means staying quietly in bed.

A bed tray can be used as a table for the smallest to work on for coloring or building, but a card table is far better because there is so much more play-space. Simply unfold two of the legs, stand them close to the bed, lay the table (with other two legs folded under) over the child and held by a rolled blanket or firm pillow, and there you are! To protect

table top, cover with plastic or oilcloth square, thumb-tacked taut on the under side; either will wipe free of crayon marks, water-color stains... spilled foods. The little invalid can scatter his crayons or tinkertoys or erector pieces over a large surface and still keep the coverlet clear.

If the convalescence is to be rather long, a small goldfish bowl with a couple of fish will keep most children contented when rest time comes and they must lie quietly in bed. There is something soothing and sleep-inducing about watching the golden figures glide through the water when globe is placed on bedside table at eye-level. If the children's room boasts a radio, play it only at certain times and make those highlights. If it is played all day, the child grows weary of it and the good programs lose their significance.

Mealtime should be a happy time, and if the appetite of the little sick-a-bed is lagging, introduce color in the china and glassware and in the food. Ruddy beets, golden carrots and bright green peas, served on a sunny yellow plate will tempt any child more than mashed potatoes, cauliflower and pale yellow squash on a white one! Even mashed potatoes can be made by nesting a well of golden yellow butter and sprinkling with chopped parsley and a bit of paprika. The slow milk-drinker will consume every drop if he knows there'll be something to see when the glass is empty so the picture will show through glass-bottom! And it takes only a minute to paste an amusing picture there... a different one each time.

envelope and I will supply addresses.

Poppy Seed Cookies

Soak 1 cup seed in $\frac{1}{2}$ cup milk. Cream $\frac{1}{2}$ cup butter, $\frac{1}{2}$ cup sugar and then add the following other ingredients: $1\frac{1}{2}$ cups flour, $\frac{1}{8}$ tsp. salt, 1 tsp. baking powder, $\frac{1}{4}$ tsp. cinnamon, 1 cup currants or seedless raisins. Drain seeds and either add to batter or spread on top. Bake as drop cookies for 20 min. in oven 350° F. If you place seeds on top, then slip plan under broiler for a few seconds to brown on top.

Poppy Seed Filling for Coffee Cake or can be used in any bread dough as you would for cinnamon buns.

$\frac{1}{2}$ cup black poppy seeds, $\frac{1}{4}$ cup sugar, $\frac{1}{2}$ tsp. vanilla or grated lemon rind. Beat and add gradually one egg. If too moist add more seeds... must not be "runny".

Poppy Seed Pie

Combine these ingredients and cook slowly in top of double boiler stirring constantly: 1 cup seeds, 1 cup milk, 1 cup sugar, $\frac{1}{2}$ cup honey, dash of salt, $\frac{1}{4}$ tsp. grated lemon rind, 3 tps. lemon juice, 5 medium apples

(grated). Cool and turn into baked pie shell. Return to oven for about 2 minutes.

Q.: Is there a certain paint I can apply on cement floor that will give a hard, smooth finish? —(Mrs. B. W., Carman, Man.)

A.: Consult your hardware or paint dealer about this. It may be sold under different trade names. The one I had was called penetrin.

Q.: You once mentioned cleaning a chimney with saltpetre... but I forgot the amount, etc. —(Mrs. D.H., Lethbridge, Alta.)

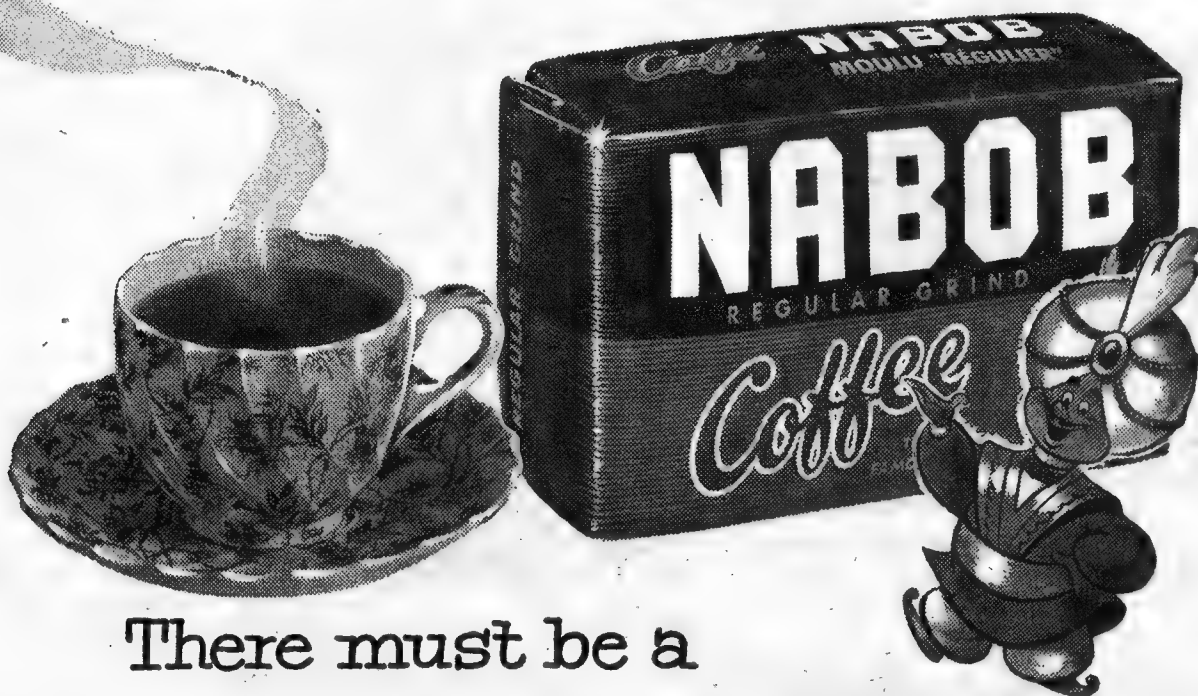
A.: I had quite a hunt to find

this... for I can forget, too! Here it is at last. "Put $\frac{1}{2}$ lb. saltpetre on the fire once per month and the fumes will clear all soot from chimney and pipes."

NOTE: — All readers are invited to send in their home-making problems to Aunt Sal in care of the Farm and Ranch Review, Calgary, Alberta. If you wish a private reply enclose a stamped, self-addressed envelope. Limit one question to each letter. There is no charge for this service.

Q. WHAT IS THE LARGEST SELLING COFFEE IN WESTERN CANADA?

A. NABOB



There must be a reason, and when you try Nabob you'll discover it's fine, full coffee flavor that makes Nabob the popular favorite...

Aunt Sal Suggests . . .

I know your days are busy ones.
And happy too I hope:
If all your thought are cheery
ones,
You'll have no time to mope.

Here are a few specific practical ideas that I know can be put to good use in your daily

lives, as home-makers. From Mrs. J. S. (and it's not John Smith either) comes this never-fail mayonnaise that I've tested and found very good indeed.

Jiffy Mayonnaise

Place all these ingredients into a large bowl but do not stir.

We'll tell you when. 1 egg, 1 tsp. dry mustard, 1½ tbsps. sugar, 2 tbsps. vinegar, 1½ tpsps. salt, 1/8 tsp. paprika, 2 tbsps. lemon juice, ¾ cup salad oil. (Now don't say you can't eat a dressing with oil in it till you've tasted this.)

Make a paste of ¼ cup cornstarch. Add ¾ cup boiling water and stir until clear (like starch). Add quickly to the contents of bowl and . . . now is the time . . . Beat and beat until it is all smooth. (Thank you, Mrs. S. for this . . . I liked it so much.)

Two very fine hints came to me from away up in the lake country in northern Alberta . . . near Lake Athabaska. I'm proud to be able to pass them on to you. One was a stain removing idea (and, oh, how many of them you ask for). Mrs. D. L. wrote that when a child's pleated skirt got some enamel paint on it she tried many things like turpentine, etc., but with no success until she thought to try a commercial paint brush cleaner . . . and presto it came out right away and didn't harm the fabric one bit. Mrs. L. had argued with herself that whereas the bristles of brushes are very fine fabric, then a cleanser for them wouldn't contain anything that would harm fine goods. And her arguing had proved sound.

Mrs. L. shared another personal experience story that interested me greatly. It dealt with the use of ground glue when washing woolens (such as blankets). I had good reason to be thrilled about this for away back about 6 or 7 years ago I was asked through this column about the use of glue in laundering and I could not find any reliable answer for many months. I searched through the references in three city libraries . . . I asked and wrote to expert economists . . . I contacted professional laundries . . . but no affirmative reply. Finally a librarian overheard two women in the reading room discussing this question and she intruded and asked them about it. One of them admitted her family had done this for generation but she was vague as to the amount used, etc. And now at last Mrs. D. L., a reader of this page, writes me exactly

how she uses it. And I'll quote her.

"I put half a cup of ground glue (bought at hardware stores), melted with soap into the first wash water when washing raw wool, woolen blankets and such and it not only makes the oil and dirt roll right out, but makes the wool as soft and glossy as brand new" . . . So there you are, my friends. I followed Mrs. L's. instructions last week when I washed a very heavy wool blanket and I was so pleased with the good results.

The above hints came to me away back last February and I have not given them the space they deserved until now. There was a third hint in this good letter from the north country (incidentally Mrs. L. tells me she used to live down at Milk River, Alberta, so she knows the prairie country, too) I had thought to tuck this hint aside and use it again but I just might tuck it away too well and not find it . . . and it is too good for that so here is her recipe for a confection that makes grand nibbling fodder.

Unbaked Chocolate Macaroons

In a large saucepan place ½ cup butter, (or marg.), 1½ cups white sugar, ½ cup milk or cold coffee. Let come to boil then add 5 tbsps cocoa stirring vigorously. Then add 1 tsp. vanilla and ¼ tsp. salt. Next add 3 cups quick oats and 1 cup coconut. Cook about two minutes then drop from spoon onto cookie sheet or platter to cool and set. To party them up, walnut halves, cherries, etc., can be perched onto each one. They turn out as that odd thing one might say is neither bird or fish . . . rather neither candy nor cookie but can pinch hit as either one.

Bye bye for now . . . and every good wish.

Aunt Sal.

The best way to thoroughly mix paint is to pour part of the contents of a can into another container, stirring the paint in each and then pouring it back and forth several times from one can to the other.



Dandy Candy!
SEA FOAM

• 3 cups granulated sugar; ¾ cup water;
¾ cup ROGERS' GOLDEN SYRUP;
3 egg whites, beaten stiff; flavoring.

Boil sugar, water and ROGERS' GOLDEN SYRUP until little of mixture forms "soft ball" when tested in cold water (234-240°F). Cool slightly and pour gradually over stiffly beaten egg whites, beating until mixture is smooth, heavy and of dull appearance. Add flavoring and drop by teaspoonfuls onto greased paper to harden.

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The Dishpan Philosopher

IT'S funny how some days are fine and everything falls into line. Even the weather-man comes through to suit the things we plan to do. While other days from morn till night there's not a thing that works out right. We shouldn't be surprised at this — life holds so much of hit and miss. A constant game of win or lose no matter what the course we choose! The plans of mice and men, I'd say, by no means ALWAYS gang agley. But all too often fate steps in on plans with which our days begin, and change the happy course we set to one of frantic fuss and fret.

Well, knowing this is thus and so as good and bad days come and go, I guess we might as well decide to take whatever comes in stride, thinking when things don't go our way tomorrow is another day.

Country Diary

AUGUST is the month in a hurry. It travels at a faster speed than any of them, just as if September was beckoning and urging. On the big wall calendar it looks to be in the very heart of summer, when in reality it has the hint of departure, and one is aware of the nearness of September. Indeed and in truth, "summer's lease hath all too short a space."

The farmer has his weather-eye on the calendar and the heavens, watching the rounding of the moon's periphery as the end of the month approaches, hoping the late-ripening grain will safely pass the frost danger line. Then, the hazard past, and warm, sunny days and mild nights to follow, all may be well.

There is a sort of tranquility about August. It is a little season of quiet watching and hoping between steady field work and fulfilment. Our feathered pals who filled the air with song in spring-time are now silent and scarce. The quieting process is not the result of tired or worn-out musical muscles, but because the birds are changing their feathers and when in moult lose both song and appetite. Possibly they feel depressed, for they hide in trees and bushes as if ashamed of their shabbiness. As with all domestic and wild birds, new feathers push up through the skin as old ones fall out, the exchange of old clothes for new is a good thing, especially for the migrant birds, who are so much better able to face the risks of long journeyings when rid of ragged, shabby feathers. Sparrows and wrens do not keep the vow of silence imposed upon their fellows, perhaps because they moulted early. Anyway, their small chirps and twitterings, while not exactly tuneful, are cheery and good to hear.

In contrast, however, insects make themselves heard; this month they are at their loudest. Grasshoppers start the day with their thin, vibrating song that becomes tedious as the day wears on, and at night when joined by their kin, the cricket family, their chant increases as they hold a general choir practice. Big, brown bees buzz and bumble as they clumsily hover and light on goldenrod and asters, and swarms of gnats circle and whirl with a whirring of wings in the haze of noon-day heat.

It is surprising to find out how common every-day words began, and fascinating to trace them to the source. Strange as it may seem, "tawdry" is a word definitely belonging to August. We have to go back several hundred years to Saxon Eng-

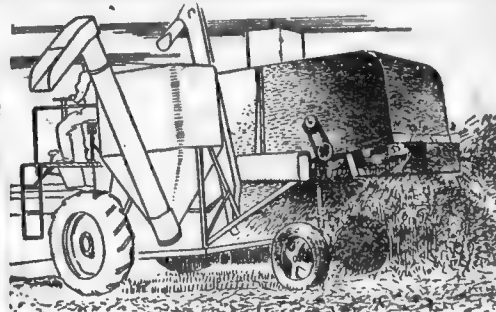
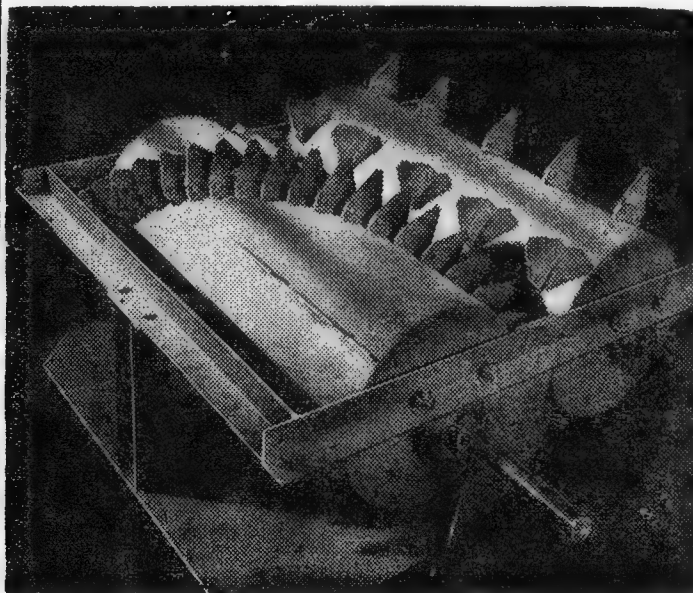
land, where every year, on St. Bartholomew's Day, August 24th, a great fair, known at St. Etheldreda's Fair was held.

In time, St. Etheldreda became shortened to St. Audrey. From the many gee-gaws and trinkets sold to innocent country folk at the fair, the word "tawdry", a brief form of St. Audrey, became the word we use to describe something cheap and showy.

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Hand writing habits and job applications

By DAVID MEYER

AN executive, in an industrial organization wanted a secretary who would be reliable, work quickly and efficiently, handle details well and make a good impression on customers.

An employment agency sent four girls, parts of whose handwriting are reproduced below:

familiar with
1 *Samora type*

in doing
2 *a great*

finishing
3 *last*

done editorial
4 *scrap*

Writing number one is irregularly written and spaced. Note that the letters within each word are of uneven height and the lower loops tangle with the following line. The writer is moody and temperamental. These traits make her unstable, and her instability reflects on her reliability. She is likely to make errors of omission and commission. The letters within each word are connected, so we know she has reasoning power; but she lacks intuition and insight. The lack of exactness in the writing, such

as omission of some i-dots, tells us that her sense for details is inadequate. Finally, her moodiness will result in procrastination so that she will have to be humored to get on with the work. Now, while she is an interesting young lady socially, she will not make a good secretary.

Writing number two leans back, so we know she is emotionally inhibited. This character trait is reinforced by the peculiar triangular shapes to the lower loops. The writer is tense and self-conscious. She lacks spontaneity and naturalness. She will not have a pleasant effect on prospective customers with whom she may have to spend a few minutes in casual talk while they wait for her employer. Now, the angular structure of the letters indicates energy, intelligence and will power. But she lacks flexibility

and resilience. She is all too likely to talk back to her employer and waste his time with her own ideas on how to run certain aspects of his business. She is a quick worker, for her words lack initial and end strokes, showing that she has an eye for essentials and knows how to skip over non-essentials. But there is a stubborn and fault-finding streak in her that will make her difficult to get along with.

Writing number 3 has an upright slant. From this we know that our writer's emotions are under the sway of her reason. She is original; we know this from the clever way in which she makes the letter "t". Note that the letter is made with one stroke. This formation also tells us that she is economical in both mental and physical effort. She has an eye for short-cuts. The regularity of her writing attests to steady working ha-

Meditations at twilight

By A. L. MARKS

DO wild animals reason and sympathize with each other? It would certainly appear to be true from the many interesting items sent to this magazine by boys and girls across the Dominion. One specific incident may be cited.

Some friends of mine, this spring, were standing on the edge of Lost Lagoon, in Stanley Park, Vancouver, watching a group of Mallard ducks swimming around and feeding in the lagoon.

As the folks watched, a canoe load of young people drove through the ducks, carelessly swinging their paddles. After the canoe had passed them, one, which had evidently been hit, lay dead and floating on the water. There was a shoreward wind blowing at the time.

The wind blew the dead duck to the shore near my friends and they noticed a splendid drake swim out from the smaller group of ducks and follow her.

My friends lifted the casualty upon the grass near the shore line.

The drake got out of the water, walked over to it, touched her wing with her bill, quacked softly to her several times, and returned to the water, but, of course, she didn't come.

The other pair, from the smaller group, which had been watching, swam up, got between the bereaved drake and his dead mate and piloted him away from her.

He escaped from them and came back to the spot. The pair came back again and piloted him away once more.

That action pattern, was followed several times before my friends left. How did the drake's friends know what to do to help him?

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- ★ SAVE A STROKE IN SPRING WORK
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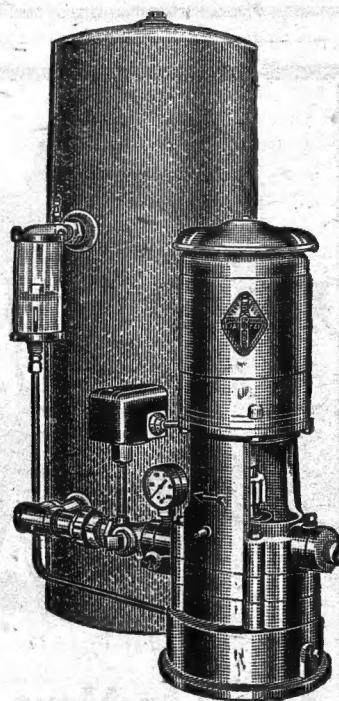
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bits. The pointed tops of her letters indicate maturity of mind. But some of her punctuation defies the rules; her grasp of details is only average.

Writing number 4 is characterized by legibility, simplicity, clear-spacing and regularity. Our young lady has a well-organized mind, objectivity, reliability of character. She, too, has a quick grasp of essentials for her letters are not encumbered by beginning and end strokes. Of the four applicants, this writer has the best sense of details, for her writing observes the rules of punctuation, in addition to being very neat and correct. She is also very

well-mannered. Her weakness approach. She actually exudes lies in her extreme reserve, so an atmosphere of distance about that she strikes people as being her personality. She is very withdrawn and rather hard to modest and rather shy.

What does your handwriting reveal?

Are you a natural-born salesman or would you make a better mechanic? Have you got hidden talent for art, cookery or stenography? Would you be interested in getting the verdict of an expert on the character your handwriting reveals?

The Farm and Ranch has arranged with Mr. David Meyer, the author of this new and regular feature of the Farm and Ranch, to analyze the handwriting of its readers. Here are the rules:

Write at least 12 lines with pen and ink on good paper. Do NOT — repeat — NOT use a ball-point pen or pencil. Send it, together with 25 cents in coin: —

DAVID MEYER.

7½ Jane St., New York City, New York, U.S.A.

Do not send stamps and always enclose a self-addressed envelope.

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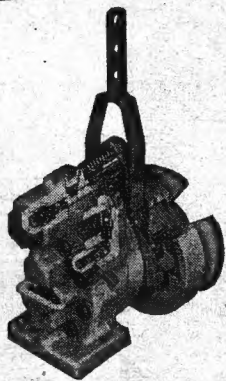
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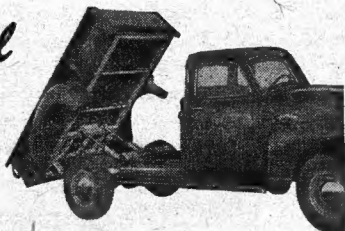
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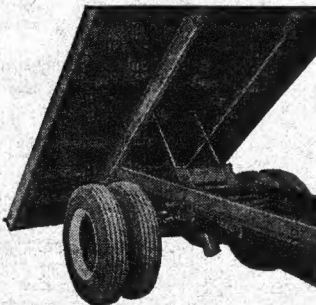
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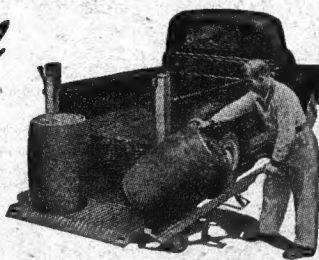
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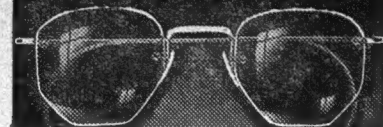


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UNITED GRAIN GROWERS LIMITED

CLASS "A" SHARES

Notice is hereby given that the Board of Directors has declared a dividend at the rate of 5% on the paid-up par value of Class "A" (Preferred) Shares (par value \$20.00 each).

This dividend will be paid on or about September 1st, 1953, to holders of such shares of record at the close of business on Saturday, July 25th, 1953.

By order of the Board,
D. G. MILLER,
Secretary.

July 15, 1953.
Winnipeg, Manitoba.

GOLD MEDAL

QUALITY



PAYS OFF

TRY

- Growing Supplement
- Growing Mash Pellets
- Turkey Growing Supplement.

**Gold Medal
Feeds**

Ltd.

Calgary

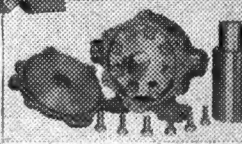
Alberta



**HANSON
MODEL AP
PUMP**

Only
\$54.50

F.O.B.
Factory



A compact PTO spray pump with long-wearing Nylon rollers, Ni-resist case and rotor, stainless steel shaft and sealed ball bearings. Pressures up to 350 PSI; discharge rates up to 15 GPM. Write for details.

HANSON CHEM. EQUIP. EXPORT CO.

P. O. BOX 228, BELOIT, WIS., U. S.

CHEVROLET

is further ahead than ever



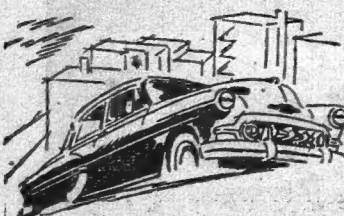
Illustrated — Chevrolet "One-Fifty" 2-Door Sedan

POWERGLIDE and POWER STEERING!



Chevrolet's new Powerglide, optional at extra cost on the Bel Air and Two-Ten series, is the newest, most advanced automatic transmission in its field. A new automatic starting and passing range gives you flashing get-away from a standing start, or for passing in city driving. Power Steering—optional at extra cost with Powerglide—lets you steer and park with finger-tip ease, and drive with greater safety everywhere.

HIGH-COMPRESSION POWER!



The new 115-h.p. "Blue-Flame" valve-in-head engine teamed with the new Powerglide automatic transmission as an option at extra cost on "Two-Ten" and Bel Air models has an extra high compression ratio of 7.5 to 1. In gearshift models, you get the new 108-h.p. high-compression "Thrifty-King" engine. Both bring you far finer performance on far less gasoline!

ALL THE NEW THINGS YOU WANT!



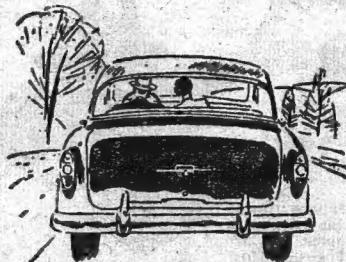
More weight, more stability, more roadsteadiness, with Centre-Point rear suspension and the softer, smoother Knee-Action Ride. A wider choice of body types and colour harmonies. And, optional at extra cost, GM Shade-Lite Tinted Glass with exclusive, graduated windshield tinting, and the amazing GM Autronic Eye which automatically dims and brightens headlights.

COLOUR-STYLED INTERIORS!



A whole flashing panorama of sparkling colours and colour combinations are yours to choose from in your new Chevrolet. There's an almost endless variety of handsome interior shades, exterior shades and two-tone combinations to stir your fancy and set your imagination to work. This year's Chevrolet boasts interiors colour-matched to exteriors, a true fine-car feature that's only one of the many extras you'll find in Chevrolet.

ECONOMY AND VALUE!



This year's Chevrolet brings you the most important gain in economy in Chevrolet's entire 40-year history! You go much farther on every gallon of gas (regular gas, at that). You save on over-all costs of operation and upkeep. You save every mile you drive with this great new '53 Chevrolet. Yes, with all its higher quality and new features, Chevrolet is still Canada's finest low-priced car.

A GENERAL MOTORS VALUE

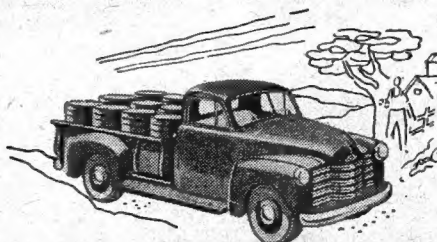
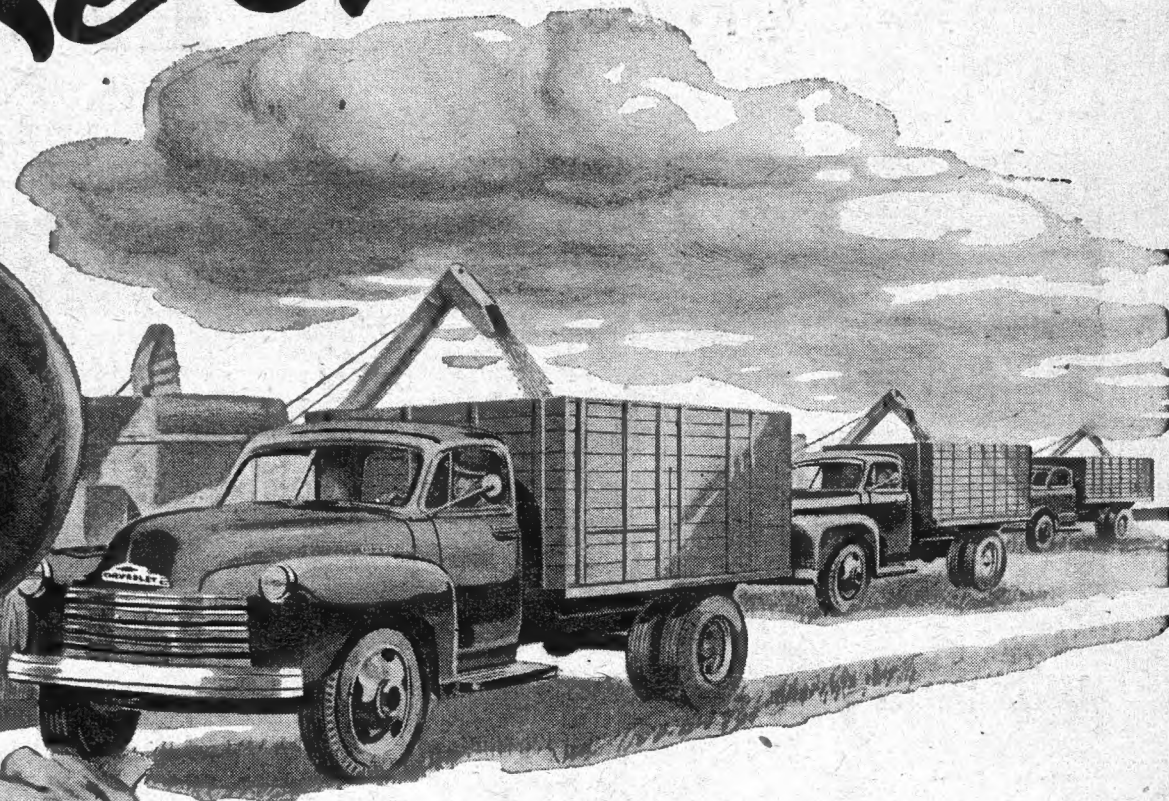


**MORE PEOPLE BUY CHEVROLETS
THAN ANY OTHER CAR!**

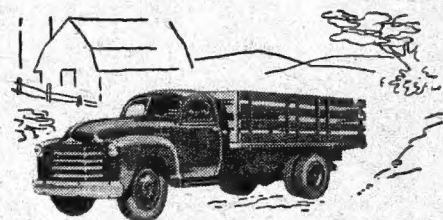


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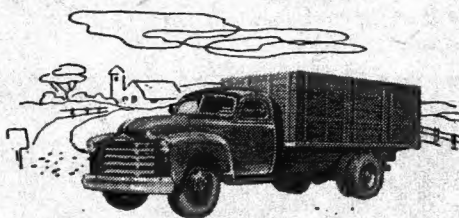
"I'll take Chevrolet"



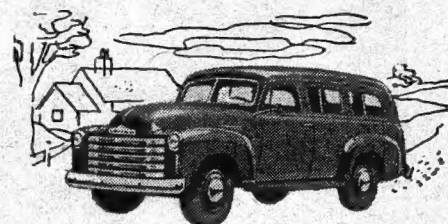
"I'll take a good-looking versatile Chevrolet pick-up truck for speedy, dependable service. Being engineered throughout with your hauling job in mind, Chevrolet trucks are easy to load and unload, easy to keep in first-class running order. They save me time and trouble, day in and day out, all the year 'round."



"I'll take a Chevrolet for any farm hauling job you care to mention. Every model is truck-engineered from the ground up to provide rugged strength and durability well beyond all normal carrying capacities. On all roads and in every kind of weather I can rely on Chevrolet to see the job through."



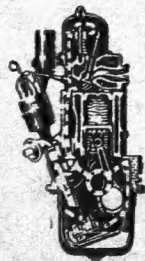
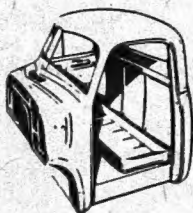
"I'll take a 1500 series Chevrolet truck for the heavier jobs, too, where really rugged hauling power is needed. Extra sturdy frames, self-energizing front and twin-action rear brakes and 4-speed synchro mesh transmission are just a few of their wonderful features."



"The Carryall Suburban takes 8 passengers comfortably, and you can easily convert it to handle equipment or supplies by just taking out the rear seats. It's just one more reason why I'll take a Chevrolet truck — every time!"

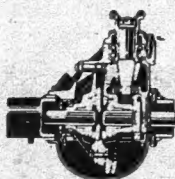
F53-CT-3

Unsurpassed for driver safety, the "Battleship Construction" of Chevrolet trucks provides a single, all-welded, double-walled steel unit giving maximum protection to all occupants.



Full-pressure lubrication on Chevrolet Loadmaster engines, to all camshaft, main and connecting rod bearings, ensures smoother performance and longer engine life.

All Chevrolet trucks up to the 1500 Series are equipped with Hypoid Single Speed rear axles, with a Two Speed rear axle option on the 1500 Series.



CHEVROLET TRUCKS



A General Motors Value

More People Buy Chevrolet Trucks Than Any Other Make